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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626
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NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

| Effective Date | Airport Information | Airspace Information* |
|----------------|---------------------|-----------------------|
| | Cut-off date | Cut-off date |
| 23 Sep 10 | 11 Aug 10 | 22 Jul 10 |
| 18 Nov 10 | 6 Oct 10 | 16 Sep 10 |
| 13 Jan 11 | 1 Dec 10 | 11 Nov 10 |
| 10 Mar 11 | 26 Jan 11 | 6 Jan 11 |
| 5 May 11 | 23 Mar 11 | 3 Mar 11 |
| 30 Jun 11 | 18 May 11 | 28 Apr 11 |

*Including changes to preferred routes and graphic depictions on charts.

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1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at <http://aeronav.faa.gov>.
See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

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Fax 301-436-6829
or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

GENERAL INFORMATION

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

| | | | |
|--------|---|--------|---------------------------------------|
| AAF | Army Air Field | byd | beyond |
| AB | Airbase | C | Commercial Circuit (Telephone) |
| abv | above | CGAF | Coast Guard Air Facility |
| ACC | Air Combat Command; Area Control Center | CGAS | Coast Guard Air Station |
| acft | aircraft | CIV | Civil |
| ADCC | Air Defense Control Center | clsd | closed |
| AER | approach end rwy | comd | command |
| AFB | Air Force Base | CONUS | Continental United States |
| AFHP | Air Force Heliport | CSTMS | Customs |
| afld | airfield | ctc | contact |
| AFOD | US Army Flight Operations Detachment | ctl | control |
| AFRC | Armed Forces Reserve Center/Air Force Reserve Command | dalgt | daylight |
| AFSS | Automated Flight Service Station | Dec | December |
| AG | Agriculture | DIAP | DoD Instrument Approach Procedure |
| A-GEAR | Arresting Gear | DoD | Department of Defense |
| AGL | above ground level | DSN | Defense Switching Network (Telephone) |
| AHP | Army heliport | dsplcd | displaced |
| ALS | Approach Light System | durn | duration |
| alt | altitude | eff | effective |
| AMC | Air Mobility Command | emerg | emergency |
| ANGS | Air National Guard Station | EOR | End of Runway |
| apch | approach | ETA | Estimated Time of Arrival |
| Apr | April | ETD | Estimated Time of Departure |
| APU | Auxiliary Power Unit | exc | except |
| ARB | Air Reserve Base | extd | extend |
| arpt | airport | FBO | fixed-base operator |
| ARS | Air Reserve Station | Feb | February |
| AS | Air Station | fld | field |
| ASDE-X | Airport Surface Detection Equipment—Model X | FLIP | Flight Information Publication |
| ASU | Aircraft Starting Unit | flt | flight |
| ATC | Air Traffic Control | flw | follow |
| ATCT | Airport Traffic Control Tower | Fri | Friday |
| Aug | August | FSS | Flight Service Station |
| AUW | All Up Weight (gross weight) | GA | glide angle |
| avbl | available | GCA | Ground Controlled Approach |
| bcn | beacon | GS | glide slope |
| blo | below | haz | hazard |
| | | HQ | Headquarters |

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

| | | | |
|-------|---|----------|---|
| hr | hour | npi | non precision instrument |
| IAP | Instrument Approach Procedure | NS ABTMT | Noise Abatement |
| ICAO | International Civil Aviation Organization | NSTD | nonstandard |
| IFR | Instrument Flight Rules | ntc | notice |
| ILS | Instrument Landing System | obsn | observation |
| IM | Inner Marker | Oct | October |
| IMG | Immigration | OLF | Outlying Field |
| incr | increase | opr | operate, operator, operational |
| indef | indefinite | ops | operations |
| ints | intensity | OTS | out of service |
| invo | in the vicinity of | ovrn | overrun |
| IMC | Instrument Meteorological Conditions | PAEW | personnel and equipment working |
| Jan | January | pat | pattern |
| JASU | Jet Aircraft Starting Unit | p-line | power line |
| JOAP | Joint Oil Analysis Program | PMSV | Pilot-to-Metro Service |
| JOSAC | Joint Operational Support Airlift Center | POL | Petrol, Oils and Lubricants |
| JRB | Joint Reserve Base | PPR | prior permission required |
| Jul | July | PRM | Precision Runway Monitoring |
| Jun | June | PTD | Pilot to Dispatcher |
| Kt | Knots | RAMCC | Regional Air Movement Control Center |
| LAA | Local Airport Advisory | req | request |
| LAHSO | Land and Hold Short Operations | rgt tfc | right traffic |
| lbs | pounds | RON | Remain Overnight |
| ldg | landing | rqr | require |
| Igtd | lighted | rstd | restricted |
| Igts | lights | RSRS | reduced same runway separation |
| LMM | Compass locator at Middle Marker ILS | rwy | runway |
| LOC | Localizer | Sat | Saturday |
| LOM | Compass locator at Outer Marker ILS | SELF | Strategic Expeditionary Landing Field |
| ltd | limited | Sep | September |
| MACC | Military Area Control Center | SFA | Single Frequency Approach |
| Mar | March | sfc | surface |
| MCAF | Marine Corps Air Facility | SFRA | Special Flight Rules Area |
| MCALF | Marine Corps Auxiliary Landing Field | SOAP | Spectrometric Oil Analysis Program |
| MCAS | Marine Corps Air Station | SOF | Supervisor of Flying |
| MCB | Marine Corps Base | SPB | Seaplane Base |
| med | medium | SR | sunrise |
| METRO | Pilot-to-Metro voice call | SS | sunset |
| Mil | military | std | standard |
| min | minute | Sun | Sunday |
| MLS | Microwave Landing System | svc | service |
| MM | Middle Marker of ILS | tfc | traffic |
| Mon | Monday | thld | threshold |
| MP | Maintenance Period | Thu | Thursday |
| MSL | mean sea level | tkf | take-off |
| MSAW | minimum safe altitude warning | tmpry | temporary |
| NAAS | Naval Auxiliary Air Station | tran | transient |
| NADC | Naval Air Development Center | Tue | Tuesday |
| NADEP | Naval Air Depot | twr | tower |
| NAEC | Naval Air Engineering Center | twy | taxiway |
| NAES | Naval Air Engineering Station | UC | Under Construction |
| NAF | Naval Air Facility | USA | United States Army |
| NALCO | Naval Air Logistics Control Office | USAF | United States Air Force |
| NALO | Navy Air Logistics Office | USCG | United States Coast Guard |
| NALF | Naval Auxiliary Landing Field | USN | United States Navy |
| NAS | Naval Air Station | V | Defense Switching Network (telephone, formerly AUTOVON) |
| NAWC | Naval Air Warfare Center | VFR | Visual Flight Rules |
| NAWS | Naval Air Weapons Station | VIP | Very Important Person |
| ngt | night | VMC | Visual Meteorological Conditions |
| NOLF | Naval Outlying Field | Wed | Wednesday |
| Nov | November | wx | weather |

SAMPLE

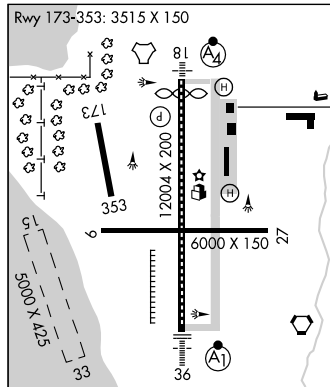
① CITY NAME
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER
 ④ ①① ①② ①③ ①④ ①⑤ ①⑥ ①⑦ ①⑧ ①⑨ ①⑩ ①⑪ ①⑫ ①⑬ ①⑭ ①⑮ ①⑯ ①⑰ ①⑱ ①⑲ ①⑳ ①㉑
 ②① RWY 18-36: H12004X200 (ASPH-CONC-GRVD)
 S-90, D-160, 2D-300 PCN 80 R/B/W/T HIRL CL
 RWY 18: LDIN: MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.
 Thld dsplcd 300'. Trees. Rgt tfe. 0.3% up.
 RWY 36: ALSF1. 0.4% down.
 RWY 09-27: H6000X150 (ASPH) MIRL
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T
 LAND AND HOLD SHORT OPERATIONS

| LANDING | HOLD SHORT POINT | DIST AVBL |
|---------|------------------|-----------|
| RWY 18 | 09-27 | 6500 |
| RWY 36 | 09-27 | 5400 |

 RUNWAY DECLARED DISTANCE INFORMATION
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704
 ②② ARRESTING GEAR/SYSTEM
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36
 ②③ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)
 ②④
 ②⑤ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← ②⑥
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.
 ②⑦ ②⑧
 ②⑨ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service
 (ADCUS) avbl.
 ③① MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15
 minutes prior to ldg and after dep. Limited tran parking.
 ③② WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.
 COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2
 NAME RCO 112.2T 112.1R (NAME RADIO)
 ③ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5
 ③③ AIRSPACE: CLASS B See VFR Terminal Area Chart.
 ③④ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF etc FSS.
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.
 ASR/PAR (1200-0400Z†)
 ③⑤ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

 HELIPAD H1: H100X75 (ASPH)
 HELIPAD H2: H60X60 (ASPH)
 HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

 187 TPA 1000(813)
 WATERWAY 15-33: 5000X425 (WATER)
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.
 All mileages are nautical unless otherwise noted.
 All times are Coordinated Universal Time (UTC) except as noted.
 All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
 The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes
 is considered equivalent to World Geodetic System 1984 (WGS 84).

10

SKETCH LEGEND

RUNWAYS/LANDING AREAS

| | |
|------------------------------------|--|
| Hard Surfaced | |
| Metal Surface | |
| Sod, Gravel, etc. | |
| Light Plane, | |
| Ski Landing Area or Water | |
| Under Construction | |
| Closed | |
| Helicopter Landings Area | |
| Displaced Threshold | |
| Taxiway, Apron and Stopways . . | |

MISCELLANEOUS BASE AND CULTURAL FEATURES

| | |
|-----------------------------------|--|
| Buildings | |
| Power Lines | |
| Fence | |
| Towers | |
| Tanks | |
| Oil Well | |
| Smoke Stack | |
| Obstruction | |
| Controlling Obstruction | |
| Trees | |
| Populated Places | |
| Cuts and Fills | |
| Cliffs and Depressions . . | |
| Ditch | |
| Hill | |

RADIO AIDS TO NAVIGATION

| | | | |
|-------------------|--|-------------------|--|
| VORTAC | | VOR | |
| VOR/DME | | NDB | |
| TACAN | | NDB/DME | |

MISCELLANEOUS AERONAUTICAL FEATURES

| | |
|--------------------------|--|
| Airport Beacon | |
| Wind Cone | |
| Landing Tee | |
| Tetrahedron | |
| Control Tower | |

APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1) Negative symbology, e.g., (A1) indicates Pilot Controlled Lighting (PCL).

| | |
|--|--|
| Runway Centerline Lighting | |
| (A) Approach Lighting System ALSF-2 . . | |
| (A1) Approach Lighting System ALSF-1 . . | |
| (A2) Short Approach Lighting System SALS/SALSF | |
| (A3) Simplified Short Approach Lighting System (SSALR) with RAIL | |
| (A4) Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF) | |
| (A5) Medium Intensity Approach Lighting System (MALSR) and RAIL | |
| (Y) Omnidirectional Approach Lighting System (ODALS) | |
| (D) Navy Parallel Row and Cross Bar . . | |
| (F) Air Force Overrun | |
| (V) Visual Approach Slope Indicator with Standard Threshold Clearance provided | |
| (V2) Pulsating Visual Approach Slope Indicator (PVASI) | |
| (V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft | |
| (V4) Tri-color Visual Approach Slope Indicator (TRCV) | |
| (V5) Approach Path Alignment Panel (APAP) | |
| (P) Precision Approach Path Indicator (PAPI) | |

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navajids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

| | | | |
|---------|---------------------------------------|------|---|
| A | US Army | MC | Marine Corps |
| AFRC | Air Force Reserve Command | N | Navy |
| AF | US Air Force | NAF | Naval Air Facility |
| ANG | Air National Guard | NAS | Naval Air Station |
| AR | US Army Reserve | NASA | National Air and Space Administration |
| ARNG | US Army National Guard | P | US Civil Airport Wherein Permit Covers |
| CG | US Coast Guard | | Use by Transient Military Aircraft |
| CIV/MIL | Joint Use Civil/Military | PVT | Private Use Only (Closed to the Public) |
| DND | Department of National Defense Canada | | |

⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

⑦ GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

⑧ CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

⑨ INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5-4-5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

⑩ AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

⑪ ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

⑫ ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

⑬ SERVICING—CIVIL

| | |
|--|--|
| S1: Minor airframe repairs. | S5: Major airframe repairs. |
| S2: Minor airframe and minor powerplant repairs. | S6: Minor airframe and major powerplant repairs. |
| S3: Major airframe and minor powerplant repairs. | S7: Major powerplant repairs. |
| S4: Major airframe and major powerplant repairs. | S8: Minor powerplant repairs. |

⑭ FUEL

| CODE | FUEL | CODE | FUEL |
|-------|---|----------|---|
| 80 | Grade 80 gasoline (Red) | B+ | Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C. |
| 100 | Grade 100 gasoline (Green) | J4 (JP4) | (JP-4 military specification) FP** minus 58° C. |
| 100LL | 100LL gasoline (low lead) (Blue) | J5 (JP5) | (JP-5 military specification) Kerosene with FS-11, FP** minus 46° C. |
| 115 | Grade 115 gasoline (115/145 military specification) (Purple) | J8 (JP8) | (JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47° C. |
| A | Jet A, Kerosene, without FS-II*, FP** minus 40° C. | J8+100 | (JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47° C, with-fuel additive package that improves thermo stability characteristics of JP-8. |
| A+ | Jet A, Kerosene, with FS-II*, FP** minus 40° C. | J | (Jet Fuel Type Unknown) |
| A1 | Jet A-1, Kerosene, without FS-II*, FP** minus 47° C. | MOGAS | Automobile gasoline which is to be used as aircraft fuel. |
| A1+ | Jet A-1, Kerosene with FS-II*, FP** minus 47° C. | | |
| B | Jet B, Wide-cut, turbine fuel without FS-II*, FP** minus 50° C. | | |

*(Fuel System Icing Inhibitor)

** (Freeze Point)

NOTE: Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

⑮ OXYGEN—CIVIL

| | |
|--------------------|--|
| OX 1 High Pressure | OX 3 High Pressure—Replacement Bottles |
| OX 2 Low Pressure | OX 4 Low Pressure—Replacement Bottles |

⑯ TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

⑪ AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

⑫ CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

| Type of Air Carrier Operation | Class I | Class II | Class III | Class IV |
|---|---------|----------|-----------|----------|
| Scheduled Air Carrier Aircraft with 31 or more passenger seats | X | | | |
| Unscheduled Air Carrier Aircraft with 31 or more passengers seats | X | X | | X |
| Scheduled Air Carrier Aircraft with 10 to 30 passenger seats | X | X | X | |

14 CFR—PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

| <i>Airport Index</i> | <i>Required No. Vehicles</i> | <i>Aircraft Length</i> | <i>Scheduled Departures</i> | <i>Agent + Water for Foam</i> |
|----------------------|------------------------------|---------------------------------------|-----------------------------|---|
| A | 1 | <90' | ≥1 | 500#DC or HALON 1211 or 450#DC + 100 gal H ₂ O |
| B | 1 or 2 | ≥90', <126' ----- ≥126', <159' | ≥5 ----- <5 | Index A + 1500 gal H ₂ O |
| C | 2 or 3 | ≥126', <159' ----- ≥159', <200' | ≥5 ----- <5 | Index A + 3000 gal H ₂ O |
| D | 3 | ≥159', <200' ----- >200' | <5 | Index A + 4000 gal H ₂ O |
| E | 3 | ≥200' | ≥5 | Index A + 6000 gal H ₂ O |

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

⑬ NOTAM SERVICE

All public use landing areas are provided NOTAM “D” (distant dissemination) and NOTAM “L” (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. “NOTAM FILE IAD”. See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

② FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

② RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

| | | |
|-------------------------------------|-----------------------------------|--------------------------------------|
| (AFSC)—Aggregate friction seal coat | (GRVL)—Gravel, or cinders | (PSP)—Pierced steel plank |
| (ASPH)—Asphalt | (MATS)—Pierced steel planking, | (RFSC)—Rubberized friction seal coat |
| (CONC)—Concrete | landing mats, membranes | (TURF)—Turf |
| (DIRT)—Dirt | (PEM)—Part concrete, part asphalt | (TRTD)—Treated |
| (GRVD)—Grooved | (PFC)—Porous friction courses | (WC)—Wire combed |

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

| CURRENT | NEW | NEW DESCRIPTION |
|---------|--------|--|
| S | S | Single wheel type landing gear (DC3), (C47), (F15), etc. |
| D | D | Dual wheel type landing gear (BE1900), (B737), (A319), etc. |
| T | D | Dual wheel type landing gear (P3, C9). |
| ST | 2S | Two single wheels in tandem type landing gear (C130). |
| TRT | 2T | Two triple wheels in tandem type landing gear (C17), etc. |
| DT | 2D | Two dual wheels in tandem type landing gear (B707), etc. |
| TT | 2D | Two dual wheels in tandem type landing gear (B757, KC135). |
| SBTT | 2D/D1 | Two dual wheels in tandem/dual wheel body gear type landing gear (KC10). |
| None | 2D/2D1 | Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600). |
| DDT | 2D/2D2 | Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4). |
| TTT | 3D | Three dual wheels in tandem type landing gear (B777), etc. |
| TT | D2 | Dual wheel gear two struts per side main gear type landing gear (B52). |
| TDT | C5 | Complex dual wheel and quadruple wheel combination landing gear (C5). |

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R — Rigid
 - F — Flexible
- (3) The pavement subgrade category:
 - A — High
 - B — Medium
 - C — Low
 - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
 - W — High, no limit
 - X — Medium, limited to 217 psi
 - Y — Low, limited to 145 psi
 - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
 - T — Technical evaluation
 - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

NOTE: Civil ALSF2 may be operated as SALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

| | | | |
|---|--|------|--|
| PNIL | APAP on left side of runway | PNIR | APAP on right side of runway |
| PAPI—Precision Approach Path Indicator | | | |
| P2L | 2-identical light units placed on left side of runway | P4L | 4-identical light units placed on left side of runway |
| P2R | 2-identical light units placed on right side of runway | P4R | 4-identical light units placed on right side of runway |
| PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors. | | | |
| PSIL | PVASI on left side of runway | PSIR | PVASI on right side of runway |
| SAVASI—Simplified Abbreviated Visual Approach Slope Indicator | | | |
| S2L | 2-box SAVASI on left side of runway | S2R | 2-box SAVASI on right side of runway |

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

| | | | |
|--------------------------------------|------------------------------------|------|-------------------------------------|
| TRIL | TRCV on left side of runway | TRIR | TRCV on right side of runway |
| VASI—Visual Approach Slope Indicator | | | |
| V2L | 2-box VASI on left side of runway | V6L | 6-box VASI on left side of runway |
| V2R | 2-box VASI on right side of runway | V6R | 6-box VASI on right side of runway |
| V4L | 4-box VASI on left side of runway | V12 | 12-box VASI on both sides of runway |
| V4R | 4-box VASI on right side of runway | V16 | 16-box VASI on both sides of runway |

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., –GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

| Key Mike | Function |
|--------------------------|--|
| 7 times within 5 seconds | Highest intensity available |
| 5 times within 5 seconds | Medium or lower intensity (Lower REIL or REIL-Off) |
| 3 times within 5 seconds | Lowest intensity available (Lower REIL or REIL-Off) |

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07–122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, “Basic Flight Information and ATC Procedures,” for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. “Rgt tfc”—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for “Land and Hold Short Operations.” These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet. Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| BAK-9 | Rotary friction brake. |
| BAK-12A | Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake. |
| BAK-12B | Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake. |
| E28 | Rotary Hydraulic (Water Brake). |
| M21 | Rotary Hydraulic (Water Brake) Mobile. |

The following device is used in conjunction with some aircraft arresting systems:

| | |
|--------|---|
| BAK-14 | A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.) |
| H | A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.) |

UNI-DIRECTIONAL CABLE

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|--------------|--|
| MB60 | Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy. |
| E5/E5-1/E5-3 | Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service. |

FOREIGN CABLE

| <u>TYPE</u> | <u>DESCRIPTION</u> | <u>US EQUIVALENT</u> |
|-------------|-----------------------------------|----------------------|
| 44B-3H | Rotary Hydraulic (Water Brake) | |
| CHAG | Chain | E-5 |

UNI-DIRECTIONAL BARRIER

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| MA-1A | Web barrier between stanchions attached to a chain energy absorber. |
| BAK-15 | Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement. |

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| EMAS | Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft. |

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

ELECTRICAL STARTING UNITS:

| | |
|-----------|--|
| A/M32A-86 | AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack) |
| MC-1A | AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw |
| MD-3 | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus |
| MD-3A | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus |
| MD-3M | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw |

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire

AIR STARTING UNITS

AM32-95 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
 AM32A-95 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
 LASS 150 +/- 5 lb/min @ 49 +/- 2 psia
 MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
 MC-1 15 cfm, 3500 psia
 MC-1A 15 cfm, 3500 psia
 MC-2A 15 cfm, 200 psia
 MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen
 DC: 28v, 700 amp
 AIR: 60 lb/min @ 40 psig @ sea level
 AM32A-60* AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva
 DC: 28v, 500 amp, 15 kw
 AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire
 DC: 28v, 200 amp, 5.6 kw
 AM32A-60B* AIR: 130 lb/min, 50 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire
 DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;
 AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
 NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v;
 AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi.
 MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.
 WELLS AIR START SYSTEM 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.

JASU (ARMY)

59B2-1B 28v, 7.5 kw, 280 amp.

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase
 CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase
 CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
 CE15 DC 22-35v, 500 amp continuous 1100 amp intermittent
 CE16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp
 AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
 C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
 E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
 MA-1 150 Air HP, 115 lb/min 50 psia
 MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF

14 FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

CODE

| | |
|---------|---|
| ADI | Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft. |
| W | Water Thrust Augmentation—Jet Aircraft. |
| WAI | Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft. |
| SP | Single Point Refueling. |
| PRESAIR | Air Compressors rated 3,000 PSI or more. |
| De-Ice | Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243). |

OXYGEN:

| | |
|------|--|
| LPOX | Low pressure oxygen servicing. |
| HPOX | High pressure oxygen servicing. |
| LHOX | Low and high pressure oxygen servicing. |
| LOX | Liquid oxygen servicing. |
| OXRB | Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.) |
| OX | Indicates oxygen servicing when type of servicing is unknown. |

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

| | |
|--------|---|
| LHOXRB | Low and high pressure oxygen servicing and replacement bottles; |
| LPOXRB | Low pressure oxygen replacement bottles only, etc. |

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

| | |
|-------|---|
| LPNIT | Low pressure nitrogen servicing. |
| HPNIT | High pressure nitrogen servicing. |
| LHNIT | Low and high pressure nitrogen servicing. |

27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

| CODE | GRADE, TYPE |
|-----------|--|
| O-113 | 1065, Reciprocating Engine Oil (MIL-L-6082) |
| O-117 | 1100, Reciprocating Engine Oil (MIL-L-6082) |
| O-117+ | 1100, O-117 plus cyclohexanone (MIL-L-6082) |
| O-123 | 1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III) |
| O-128 | 1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II) |
| O-132 | 1005, Jet Engine Oil (MIL-L-6081) |
| O-133 | 1010, Jet Engine Oil (MIL-L-6081) |
| O-147 | None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic |
| O-148 | None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil |
| O-149 | None, Aircraft Turbine Engine Synthetic, 7.5c St |
| O-155 | None, MIL-L-6086C, Aircraft, Medium Grade |
| O-156 | None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines |
| JOAP/SOAP | Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.) |

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWSR—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers.

SAWSR—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remotized facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol ® indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six “key clicks” to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol **(R)** indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as “Wx obsn svc 1900-0000Z+” or “other times” may be used when no specific time is given. PMSV facilities manned by forecasters are considered “Full Service”. PMSV facilities manned by weather observers are listed as “Limited Service”.

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter “X” indicate frequency available on request.

(33) AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc “times” ctc **APP CON** other times CLASS E:

or

AIRSPACE: CLASS D svc “times” other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700’ or 1200’ AGL. This will be formatted as:

AIRSPACE: CLASS C svc “times” ctc **APP CON** other times CLASS G, with CLASS E 700’ (or 1200’) AGL & abv:

or

AIRSPACE: CLASS D svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv:

or

AIRSPACE: CLASS E svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv.

NOTE: AIRSPACE SVC “TIMES” INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

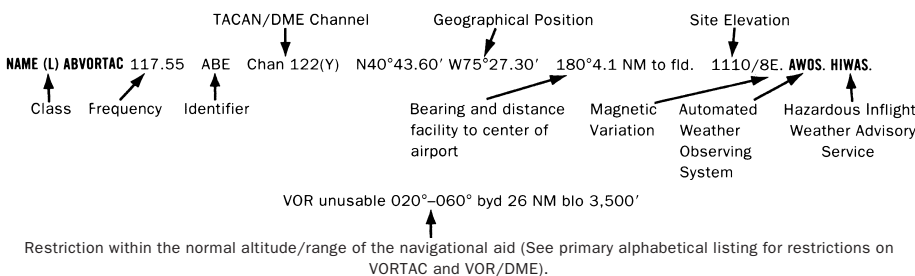
Class E 700’ AGL (shown as magenta vignette on sectional charts) and 1200’ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700’/1200’ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

34 RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDS.

NAVAID information is tabulated as indicated in the following sample:



Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information.

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's throughout the U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

| SSV Class | Altitudes | Distance (NM) |
|-------------------|--------------------|---------------|
| (T) Terminal | 1000' to 12,000' | 25 |
| (L) Low Altitude | 1000' to 18,000' | 40 |
| (H) High Altitude | 1000' to 14,500' | 40 |
| | 14,500' to 18,000' | 100 |
| | 18,000' to 45,000' | 130 |
| | 45,000' to 60,000' | 100 |

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

| | |
|---------------|--|
| AB _____ | Automatic Weather Broadcast. |
| DF _____ | Direction Finding Service. |
| DME _____ | UHF standard (TACAN compatible) distance measuring equipment. |
| DME(Y) _____ | UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME. |
| GS _____ | Glide slope. |
| H _____ | Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes). |
| HH _____ | Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes). |
| H-SAB _____ | Non-directional radio beacons providing automatic transcribed weather service. |
| ILS _____ | Instrument Landing System (voice, where available, on localizer channel). |
| IM _____ | Inner marker. |
| ISMLS _____ | Interim Standard Microwave Landing System. |
| LDA _____ | Localizer Directional Aid. |
| LMM _____ | Compass locator station when installed at middle marker site (15 NM at all altitudes). |
| LOM _____ | Compass locator station when installed at outer marker site (15 NM at all altitudes). |
| MH _____ | Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes). |
| MLS _____ | Microwave Landing System. |
| MM _____ | Middle marker. |
| OM _____ | Outer marker. |
| S _____ | Simultaneous range homing signal and/or voice. |
| SABH _____ | Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts. |
| SDF _____ | Simplified Direction Facility. |
| TACAN _____ | UHF navigational facility-omnidirectional course and distance information. |
| VOR _____ | VHF navigational facility-omnidirectional course only. |
| VOR/DME _____ | Collocated VOR navigational facility and UHF standard distance measuring equipment. |
| VORTAC _____ | Collocated VOR and TACAN navigational facilities. |
| W _____ | Without voice on radio facility frequency. |
| Z _____ | VHF station location marker at a LF radio facility. |

ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance
Classification Code

FREQUENCY PAIRING PLAN AND MLS CHANNELING

| MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL |
|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|
| 500 | 108.10 | 18X | 568 | 109.45 | 31Y | 636 | 114.15 | 88Y |
| 502 | 108.30 | 20X | 570 | 109.55 | 32Y | 638 | 114.25 | 89Y |
| 504 | 108.50 | 22X | 572 | 109.65 | 33Y | 640 | 114.35 | 90Y |
| 506 | 108.70 | 24X | 574 | 109.75 | 34Y | 642 | 114.45 | 91Y |
| 508 | 108.90 | 26X | 576 | 109.85 | 35Y | 644 | 114.55 | 92Y |
| 510 | 109.10 | 28X | 578 | 109.95 | 36Y | 646 | 114.65 | 93Y |
| 512 | 109.30 | 30X | 580 | 110.05 | 37Y | 648 | 114.75 | 94Y |
| 514 | 109.50 | 32X | 582 | 110.15 | 38Y | 650 | 114.85 | 95Y |
| 516 | 109.70 | 34X | 584 | 110.25 | 39Y | 652 | 114.95 | 96Y |
| 518 | 109.90 | 36X | 586 | 110.35 | 40Y | 654 | 115.05 | 97Y |
| 520 | 110.10 | 38X | 588 | 110.45 | 41Y | 656 | 115.15 | 98Y |
| 522 | 110.30 | 40X | 590 | 110.55 | 42Y | 658 | 115.25 | 99Y |
| 524 | 110.50 | 42X | 592 | 110.65 | 43Y | 660 | 115.35 | 100Y |
| 526 | 110.70 | 44X | 594 | 110.75 | 44Y | 662 | 115.45 | 101Y |
| 528 | 110.90 | 46X | 596 | 110.85 | 45Y | 664 | 115.55 | 102Y |
| 530 | 111.10 | 48X | 598 | 110.95 | 46Y | 666 | 115.65 | 103Y |
| 532 | 111.30 | 50X | 600 | 111.05 | 47Y | 668 | 115.75 | 104Y |
| 534 | 111.50 | 52X | 602 | 111.15 | 48Y | 670 | 115.85 | 105Y |
| 536 | 111.70 | 54X | 604 | 111.25 | 49Y | 672 | 115.95 | 106Y |
| 538 | 111.90 | 56X | 606 | 111.35 | 50Y | 674 | 116.05 | 107Y |
| 540 | 108.05 | 17Y | 608 | 111.45 | 51Y | 676 | 116.15 | 108Y |
| 542 | 108.15 | 18Y | 610 | 111.55 | 52Y | 678 | 116.25 | 109Y |
| 544 | 108.25 | 19Y | 612 | 111.65 | 53Y | 680 | 116.35 | 110Y |
| 546 | 108.35 | 20Y | 614 | 111.75 | 54Y | 682 | 116.45 | 111Y |
| 548 | 108.45 | 21Y | 616 | 111.85 | 55Y | 684 | 116.55 | 112Y |
| 550 | 108.55 | 22Y | 618 | 111.95 | 56Y | 686 | 116.65 | 113Y |
| 552 | 108.65 | 23Y | 620 | 113.35 | 80Y | 688 | 116.75 | 114Y |
| 554 | 108.75 | 24Y | 622 | 113.45 | 81Y | 690 | 116.85 | 115Y |
| 556 | 108.85 | 25Y | 624 | 113.55 | 82Y | 692 | 116.95 | 116Y |
| 558 | 108.95 | 26Y | 626 | 113.65 | 83Y | 694 | 117.05 | 117Y |
| 560 | 109.05 | 27Y | 628 | 113.75 | 84Y | 696 | 117.15 | 118Y |
| 562 | 109.15 | 28Y | 630 | 113.85 | 85Y | 698 | 117.25 | 119Y |
| 564 | 109.25 | 29Y | 632 | 113.95 | 86Y | | | |
| 566 | 109.35 | 30Y | 634 | 114.05 | 87Y | | | |

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

| TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL |
|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|
| 2X | 134.5 | - | 19Y | 108.25 | 544 | 25X | 108.80 | - |
| 2Y | 134.55 | - | 20X | 108.30 | 502 | 25Y | 108.85 | 556 |
| 11X | 135.4 | - | 20Y | 108.35 | 546 | 26X | 108.90 | 508 |
| 11Y | 135.45 | - | 21X | 108.40 | - | 26Y | 108.95 | 558 |
| 12X | 135.5 | - | 21Y | 108.45 | 548 | 27X | 109.00 | - |
| 12Y | 135.55 | - | 22X | 108.50 | 504 | 27Y | 109.05 | 560 |
| 17X | 108.00 | - | 22Y | 108.55 | 550 | 28X | 109.10 | 510 |
| 17Y | 108.05 | 540 | 23X | 108.60 | - | 28Y | 109.15 | 562 |
| 18X | 108.10 | 500 | 23Y | 108.65 | 552 | 29X | 109.20 | - |
| 18Y | 108.15 | 542 | 24X | 108.70 | 506 | 29Y | 109.25 | 564 |
| 19X | 108.20 | - | 24Y | 108.75 | 554 | 30X | 109.30 | 512 |

2

③⑤ COMM/NAV/WEATHER REMARKS:
These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

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SE. 23 SEP 2010 to 18 NOV 201

AGUADILLA

RAFAEL HERNANDEZ (BQN) (TJBQ) 3 NE UTC-4 N18°29.69' W67°07.77'

PUERTO RICO-VIRGIN ISLAND TAC

237 B S5 FUEL 100, JET A1 TPA-1237(1000) Class I, ARFF Index B
NOTAM FILE TJBQ

H-2G, L-5C, 6G, A-3F
IAP, AD

RWY 08-26: H11702X200 (ASPH-CONC) S-155, D-235, 2D-455
MIRL

RWY 08: REIL. PAPI (P4L)—GA 3.0° TCH 52'. Thld dsplcd 400'.
Trees. 0.4% down.

RWY 26: PAPI (P4L)—GA 3.0° TCH 52'. Trees. 0.3% up.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 08: TORA-11702 TODA-11702 ASDA-11702 LDA-11302

RWY 26: TORA-11702 TODA-11702 ASDA-11702 LDA-11702

AIRPORT REMARKS: Attended continuously. Ultralight ops not allowed.

Obstruction lgt on twr NW of arpt OTS indef. PPR 24 hrs for
unscheduled air carrier opr with more than 30 passenger seats
call arpt manager 787-891-2286. No parking in area C indef.
Rwy 08 REIL OTS indef. Twys E, F and G clsd to all tfc indef except
PPR, call 787-371-6310. ACTIVATE REIL Rwy 08-CTAF. US
Customs 787-882-3556, USDA 787-882-3515, US Immigration
787-882-3576.

WEATHER DATA SOURCES: AWOS-3 118.325 (787) 890-3570.

1100-0100Z±.

COMMUNICATIONS: CTAF 124.95 ATIS 118.325 UNICOM 123.0

Ⓡ **SAN JUAN CENTER APP/DEP CON** 124.35 **CLNC DEL** 120.875 (124.35 Provided by San Juan Cerap when twr clsd)

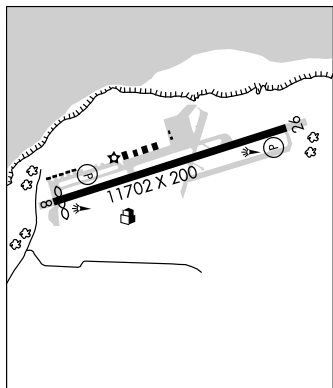
AGUADILLA TOWER 124.95 (Mon thru Sat 1100-0100Z± except Thu. Thu and Sun 1100-0500Z±.)

GND CON 120.875

AIRSPACE: CLASS D svc Mon thru Sat 1100-0100Z± except Thu. Thu and Sun 1100-0500Z±, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE TJSJ.

BORINQUEN (H) VORTAC 113.5 BQN Chan 82 N18°29.88' W67°06.50' 271° 1.2 NM to fld. 214/10W.



ANTONIO/NERY/JUARBE POL (See ARECIBO)

ANTONIO RIVERA RODRIQUEZ (See ISLA DE VIEQUES)

ARECIBO

ANTONIO/NERY/JUARBE POL (ABO) (TJAB) 3 SE UTC-4

PUERTO RICO-VIRGIN ISLAND TAC

N18°27.07' W66°40.53'

L-5C, 6G, A-3F

23 B NOTAM FILE TJSJ

RWY 08-26: H3975X60 (ASPH) S-22 MIRL

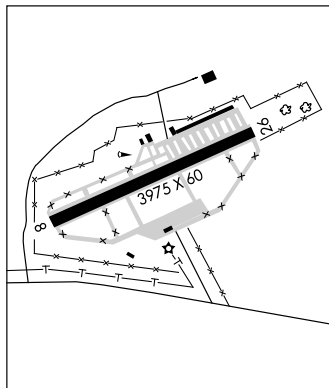
RWY 08: Tree. **RWY 26:** Trees.

AIRPORT REMARKS: Attended 1130-2000Z. Parachute Jumping. Flight
training on and invof arpt. Military helicopter ops after SR. 24
hour police protection. Fee for revenue flights. Ldg fee.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE TJSJ.

BORINQUEN (H) VORTAC 113.5 BQN Chan 82 N18°29.88'
W67°06.50' 106° 24.9 NM to fld. 214/10W.



BENJAMIN RIVERA NORIEGA (See ISLA DE CULEBRA)

BORINQUEN N18°29.88' W67°06.50' NOTAM FILE TJSJ.

PUERTO RICO-VIRGIN ISLAND TAC

(H) **VORTAC** 113.5 BQN Chan 82 271° 1.2 NM to Rafael Hernandez. 214/10W.

H-2F, L-5C, 6G, A-3F

VOR portion unusable: 176°-218° byd 30 NM blo 3,600'. DME unusable 078°-095° byd 26 NM blo 3000',
150°-175° byd 35 NM blo 6000', 176°-195° byd 21 NM blo 3600', 196°-235° byd 33 NM blo 4600',
236°-258° byd 26 NM blo 2600'.

RCO 122.1R 113.5T (SAN JUAN RADIO)

CEIBA

JOSE APONTE DE LA TORRE (RVR) 2 SW UTC-4 N18°14.71' W065°38.60' **PUERTO RICO-VIRGIN ISLAND TAC**
 38 B NOTAM FILE TJSJ. H-26, L-5C, 6G, A-3G
RWY 07-25: H11000X150 (ASPH-CONC) S-122, D-185, 2D-175, 2D/2D2-338 MIRL
RWY 07: REIL. Thld dsplcd 2390'. **RWY 25:** REIL. Thld dsplcd 950'.
RWY 18-36: H5800X100 (ASPH-CONC)
AIRPORT REMARKS: Attended 1000-0000Z. Rwy 18-36 CLOSED indef. W end of Twy A clsd for tfc. ACTIVATE rotating bcn-122.9.
COMMUNICATIONS:

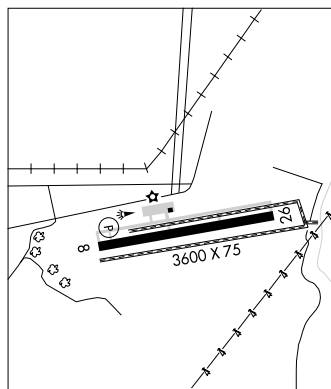
DIEGO JIMENEZ TORRES (See FAJARDO)

DORADO N18°28.10' W66°24.74' NOTAM FILE TJSJ. **PUERTO RICO-VIRGIN ISLAND TAC**
 NDB (HHW) 391 DDP 105° 23.5 NM to Luis Munoz Marin Intl. H-2F, L-5C, L-6G, A-3G

EUGENIO MARIA DE HOSTOS (See MAYAGUEZ)

FAJARDO

DIEGO JIMENEZ TORRES (X95) (TJFA) 1 NE UTC-4 N18°18.48' W65°39.71' **PUERTO RICO-VIRGIN ISLAND TAC**
 64 B TPA-1264(1200) LRA NOTAM FILE TJSJ L-5C, 6G, A-3G
RWY 08-26: H3600X75 (ASPH) S-12.5 MIRL
RWY 08: PAPI(P4L). Trees. **RWY 26:** Tree. Rgt tfc.
AIRPORT REMARKS: Attended 1000-2230Z. AVGAS unavbl. Acft departing Rwy 26 make left turn due to terrain. 3300X60 foot drag strip located 400 feet N of and parallel to Rwy 08-26 and marked with a yellow X on each end may be mistaken for the rwy. Fee for acft 7500 lbs and over. Rwy 08 PAPI OTS indef.
COMMUNICATIONS: CTAF/UNICOM 122.7
RADIO AIDS TO NAVIGATION: NOTAM FILE TJSJ.
SAN JUAN (H) VORTACW 114.0 SJU Chan 87 N18°26.78' W65°59.37' 125° 20 NM to fld. 7/11W.



FERNANDO LUIS RIBAS DOMINICCI (See SAN JUAN)

HUMACAO (X63) 1 SE UTC-4 N18°08.28' W65°48.04' **PUERTO RICO-VIRGIN ISLAND TAC**
 33 B NOTAM FILE TJSJ
RWY 10-28: H2450X60 (ASPH) S-20 MIRL
RWY 10: Mountain.
AIRPORT REMARKS: Attended 1130-2000Z. Parachute Jumping. Birds on rwy caution advised until further notice. 2 cranes 100'AGL 1/2 NM northwest Rwy 10-28 SR-SS. Cattle 500 ft from thld Rwy 28. ARFF svc unavbl Thu-Fri. Ultralights on and in vicinity of arpt. Bird activity at landfill within 1 mile of arpt. Weeds within 200 ft of rwy. Arpt lgts opr SS-SR. Ldg fee.
COMMUNICATIONS: CTAF/UNICOM 122.8
COMM/NAV/WEATHER REMARKS: Two-way radio communication rqr of all acft and vehicles except by prior req. Call 787-852-8188.

ISLA DE CULEBRA

BENJAMIN RIVERA NORIEGA (CPX) (TJCP) 1 N UTC-4 N18°18.80' W65°18.26' PUERTO RICO-VIRGIN ISLAND TAC

49 B TPA-1049(1000) LRA NOTAM FILE TJSJ

RWY 13-31: H2600X50 (ASPH) S-12 MIRL

RWY 13: Hill. RWY 31: Thld dsplcd 100'. Brush.

AIRPORT REMARKS: Attended 1100-2300Z. Arpt CLOSED SS-SR except emerg. Birds on and invof rwy caution advised until further notice. CAUTION—Low altitude maneuvering required for final alignment to rwy, varying intensities of turbulence may be experienced. Acft departing arpt northbound be alert for traffic descending on final for Charlotte Amalie St. Thomas, Cyril E. King (STT). Men and equipment working departure end Rwy 13 indefinitely. Ldg fee for acft 7500 lbs and over. Ldg Rwy 13 only (except for adverse wx conditions). Apch from N.W. thru Bahia Flamenco heading -172°. Fly thru Laguna Del Flamenco until approximately parallel to highway in pass alter heading to 153°L. turn to final.

COMMUNICATIONS: CTAF 122.9

ISLA DE VIEQUES

ANTONIO RIVERA RODRIGUEZ (VQS) (TJVQ) 3 SW UTC-4 N18°08.09' W65°29.62' PUERTO RICO-VIRGIN ISLAND TAC

49 B FUEL 100LL, JET A LRA Class I, ARFF Index A NOTAM FILE TJSJ

L-5C, 66, A-3G

RWY 09-27: H4301X75 (ASPH) S-20, D-40 MIRL 0.5% up SW

IAP

RWY 09: PAPI (P4L). Thld dsplcd 896'. RWY 27: Road. Pole. Rgt tfc.

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 09: TORA-4301 TODA-4301 ASDA-4301 LDA-3405

RWY 27: TORA-4301 TODA-4301 ASDA-4301 LDA-4301

AIRPORT REMARKS: Attended 1000-2200Z. CLOSED to unscheduled air carrier ops with more than 30 passenger seats except 24 hrs PPR, call arpt manager 787-741-8358. PPR for other B-III acft ops and limited to a wingspan of 88.75'. Construction of twy south of Rwy 09-27. Ldg fee for acft over 7500 lbs GWT.

COMMUNICATIONS: CTAF/UNICOM 123.0 (UNICOM monitored 1000-2200Z).

Ⓡ SAN JUAN CERAP APP/DEP 128.65

RADIO AIDS TO NAVIGATION: NOTAM FILE TIST.

ST THOMAS (L) VOR/DME 108.6 STT Chan 23 N18°21.35' W65°01.47' 254° 29.9 NM to fld. 679/10W.

LUIS MUNOZ MARIN INTL (See SAN JUAN)

MAYAGUEZ N18°15.39' W67°09.06' NOTAM FILE TJMZ.

PUERTO RICO-VIRGIN ISLAND TAC

(L) VOR/DME 110.6 MAZ Chan 43 at Eugenio Maria De Hostos. 18/10W.

H-2F, L-5C, L-66, A-3G

VOR portion unusable 100°-110° byd 35 NM blo 7000', 110°-120° byd 35 NM blo 9000', 240°-250°.

RCO 122.1R 110.6T (SAN JUAN RADIO)

MAYAGUEZ

EUGENIO MARIA DE HOSTOS (MAZ) (TJMZ) 3 N UTC-4 N18°15.34' W67°08.91' PUERTO RICO-VIRGIN ISLAND TAC

28 B TPA-828(800) LRA NOTAM FILE TJMZ

L-5C, 66, A-3G

RWY 09-27: H4998X100 (ASPH-GRVD) S-85, D-108, 2D-170 MIRL

IAP, AD

RWY 09: REIL. PAPI (P4L)—GA 3.0° TCH 25'. Poles. RWY 27: PAPI(P4L)—GA 3.0° TCH 42'. Trees.

AIRPORT REMARKS: Attended 1430-0630Z. AVGAS unavbl. PAEW Rwy 09-27 1100-2100Z daily. Birds on and invof rwy caution advised until further notice. Crane 70' AGL south AER Rwy 09. 10 ft trees and earth 0-200 ft N and S of Rwy 27 thld. Fee for other than home based acft. ACTIVATE PAPI Rwy 09 and Rwy 27—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MAYAGUEZ RCO 122.1R 110.6T (SAN JUAN RADIO)

Ⓡ SAN JUAN CENTER APP/DEP CON 118.75

CLNC DEL 121.7

AIRSPACE: CLASS E svc 1100-0000Z other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE TJMZ.

MAYAGUEZ (L) VOR/DME 110.6 MAZ Chan 43 N18°15.39' W67°09.06' at fld. 18/10W.

COMM/NAV/WEATHER REMARKS: San Juan CERAP provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq. 121.7.

MERCEDITA (See PONCE)

PATILLAS (X64) 1 SW UTC-4 N17°58.93' W66°01.16'

PUERTO RICO-VIRGIN ISLAND TAC

10 NOTAM FILE TJSJ

RWY 10-28: H2000X50 (ASPH) S-12.5

RWY 10: P-line. RWY 28: Tree.

AIRPORT REMARKS: Unattended. Ultralight, banner towing and experimental acft ops on and invof arpt. Fee for acft over 7500 lbs. Ldg fee.

COMMUNICATIONS: CTAF 122.9

PATTY N18°24.54' W66°05.37' NOTAM FILE TJSJ.
NDB (MHW/LOM) 330 SJ O81° 5.3 NM to Luis Munoz Marin Intl.

PUERTO RICO—VIRGIN ISLAND TAC

PONCE N17°59.55' W66°31.15' NOTAM FILE TJPS.
(L) VOR/DME 109.0 PSE Chan 27 301° 2.7 NM to Mercedita. 16/10W.
 VOR/DME unusable:
 280°–300° byd 25 NM blo 6000';
 341°–065° byd 28 NM blo 8000';
 066°–098° byd 30 NM blo 6000'.
RCO 122.1R 109.0T (SAN JUAN RADIO)

PUERTO RICO—VIRGIN ISLAND TAC
 H–2F, L–5C, 6G, A–3G

PONCE

MERCEDITA (PSE) (TJPS) 3 E UTC–4 N18°00.50' W66°33.78'
 29 B S2 **FUEL** 100, JET A1 LRA ARFF Index—See Remarks
 NOTAM FILE TJPS

PUERTO RICO—VIRGIN ISLAND TAC
 H–2G, L–5C, 6G, A–3G
 IAP

RWY 12–30: H6904X150 (ASPH–GRVD) S–85, D–190, 2D–285
 HIRL

RWY 12: REIL. Thld dsplcd 789'. P-lines. Rgt tfc.

RWY 30: REIL. PAPI(P4R)—GA 3.0° TCH 53'. Thld dsplcd 227'.
 Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 12: TORA–6904 TODA–6904 ASDA–6277 LDA–5488

RWY 30: TORA–6904 TODA–6904 ASDA–6907 LDA–6677

AIRPORT REMARKS: Attended 1000–0000Z. AVGAS 100/130 svc avbl from 1000–2130Z. Jet A1 avbl 24hrs. Class I, ARFF Index B. PPR 24 hrs for Index C and avb unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 787–842–6292. Fee for other than home based acft. Rwy 30 REIL OTS indef. PAPI Rwy 30, REIL Rwy 12 and Rwy 30 opr continuously and HIRL Rwy 12–30 preset med ints dusk–0200Z, to increase ints and ACTIVATE HIRL Rwy 12–30 and REIL Rwy 12 and Rwy 30 after 0200Z—CTAF. Ldg fee. Customs avbl Mon–Fri 1200–2100Z†.

COMMUNICATIONS: CTAF/UNICOM 122.7

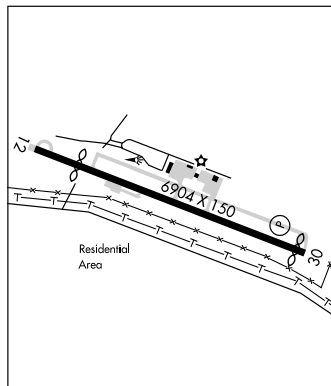
® **SAN JUAN CENTER APP/DEP CON** 118.75
 CLNC DEL 121.9

AIRSPACE: CLASS E svc 1100–2200Z other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE TJPS.

PONCE (L) VOR/DME 109.0 PSE Chan 27 N17°59.55' W66°31.15' 301° 2.7 NM to fld. 16/10W.

COMM/NAV/WEATHER REMARKS: San Juan CERAP provides IFR clearances for Ponce–Medcedita on freq. 121.9.



RAFAEL HERNANDEZ (See AGUADILLA)

SAN JUAN

FERNANDO LUIS RIBAS DOMINICCI (SIG) (TJIG) 0 W UTC–4

PUERTO RICO—VIRGIN ISLAND TAC
 H–2G, L–5C, 6G, A–3G
 IAP, AD

N18°27.41' W66°05.91'

9 B S2 **FUEL** 100, JET A TPA—1000(990) LRA ARFF Index—See Remarks
 NOTAM FILE TJSJ

RWY 09–27: H5542X100 (ASPH) S–52, D–88, 2D–160 MIRL

RWY 09: PAPI(P4L). Thld dsplcd 300'. Channel 2000'–4000' ships to 196' height.

RWY 27: Thld dsplcd 117'. Boat. Sail boat anchorage to 70' height. Rgt tfc.

AIRPORT REMARKS: Attended 1000–2300Z. Birds on and invof arpt. Stray dogs on and invof arpt. Rwy 09–27 classified as B–II. Acft exceeding arpt reference code use caution. Index A ARFF equipment avbl 1000–2330Z. Rwy 09–27 MIRL N side of rwy vary from 10' to 50' from rwy edge. Lgtd cranes (2) 110' located 800'–1500' SSE AER 27 (convention center area). 3 lgtd cranes 150' high ½ mile north apch Rwy 27. Lgtd crane 230' high located .5 miles north of arpt. Lgtd cranes (2) 150' to 200' AGL ¼ mile NE AER 27. Lgtd crane 200' AGL 2000' ENE AER 27. Banner towing invof arpt, banner pickup and drop-off prohibited. Rwy 09 PAPI OTS indef. When twr clsd straight in apch inner pattern not authorized. For acft rescue call 787–729–8859. Fee for all acft. Flight Notification Service (ADCUS) avbl. Customs/immigration opr hrs 1200–2300Z.

COMMUNICATIONS: CTAF 135.875 ATIS 120.4

® **SAN JUAN APP/DEP CON** 120.9 (North and East) 119.4 (West and Southwest)
TOWER 135.875 (1100–2300Z) **GND CON** 121.7

AIRSPACE: CLASS D svc 1100–2300Z other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE TJSJ.

SAN JUAN (H) VORTACW 114.0 SJU Chan 87 N18°26.78' W65°59.37' 287° 6.2 NM to fld. 7/11W.

COMM/NAV/WEATHER REMARKS: Weather reports not avbl.

LUIS MUNOZ MARIN INTL (SJU) (TJSJ) 3 SE UTC-4 N18°26.37' W66°00.11' **PUERTO RICO-VIRGIN ISLAND TAC**
 9 B S4 **FUEL** 100, 115, JET A1 + LRA Class I, ARFF Index D **H-2G, L-5C, 6G, A-3G**
 NOTAM FILE TJSJ **IAP, AD**

RWY 08-26: H10002X200 (ASPH-GRVD) S-100, D-200, 2D-350 HIRL
RWY 08: MALSR. PAPI(P4L)-GA 3.0° TCH 71'. Tree. Rgt tfc.
RWY 26: REIL. Thld dsplcd 220'. Tree.

RWY 10-28: H8016X150 (CONC-GRVD) S-100, D-200, 2D-350 HIRL
RWY 10: PAPI(P4L)-GA 3.0° TCH 49'. Tree. Rgt tfc. **RWY 28:** PAPI(P4L)-GA 3.0° TCH 51'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION
RWY 10: TORA-8016 TODA-8016 ASDA-8016 LDA-8016
RWY 28: TORA-8016 TODA-8016 ASDA-8016 LDA-8016

AIRPORT REMARKS: Attended continuously. PAEW N Rwy 08-26 along tree area. Obstruction crane 50' AGL 300' N
 Rwy 08-26 CLOSED Mon-Fri 1500-2200Z+. Not later than 48 hr PPR required for parking of military general
 aviation and DC3 type acft or larger. Send PPR req to Puerto Rico Port Authority at 787-253-0979,
 787-791-2908, 939-630-8862. Acft without credit with Puerto Rico Port Authority must pay all charges before
 departure. Apron 12 avbl for general aviation acft only. Twy J clsd to acft with greater than 118' wingspan. Ldg
 fee. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (787) 791-6200. LLWAS.
COMMUNICATIONS: D-ATIS 125.8 **UNICOM** 123.0
SAN JUAN RCO 126.7 123.65 122.2 (SAN JUAN RADIO)

® **SAN JUAN APP/DEP CON** 120.9 (North and East) 119.4 (West and Southwest)
SAN JUAN TOWER 132.05 **GND CON** 121.9 **CLNC DEL** 126.4

AIRSPACE: CLASS C svc continuous ctc **APP CON**

RADIO AIDS TO NAVIGATION: NOTAM FILE TJSJ.
SAN JUAN (H) VORTACW 114.0 SJU Chan 87 N18°26.78' W65°59.37' at fld. 7/11W.
PATTY NDB (MHW/LOM) 330 SJ N18°24.54' W66°05.37' 081° 5.3 NM to fld.
ILS 109.7 I-CLA Rwy 10. Class IB.
ILS 110.3 I-SJU Rwy 08. Class IA. LOM PATTY NDB. LOC unusable from 0.8 NM inbound to thld. LOC
 Back Course unusable. GS unusable byd 5° left of localizer course. LOC unusable byd 15 NM blo 2300'. GS
 unusable blo 180 ft.

SAN JUAN N18°26.78' W65°59.37' NOTAM FILE TJSJ. **PUERTO RICO-VIRGIN ISLAND TAC**
(H) VORTACW 114.0 SJU Chan 87 at Luis Munoz Marin Intl. 7/11W. **H-2F, L-5C, 6G**
VORTAC unusable:
 120°-164° byd 10 NM blo 9,000' 165°-260° byd 28 NM blo 5,000'
RCO 126.7 123.65 122.2 (SAN JUAN RADIO)

2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During calendar year 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

| DATE: | USAF Thunderbirds | USN Blue Angels | USA Golden Knights | Canadian Snowbirds |
|-----------------|---------------------|-----------------------|-----------------------|--------------------|
| September 25-26 | McConnell AFB, KS | MCAS Kaneohe Bay, HI | | Chico, CA |
| October 1-3 | | MCAS Miramar, CA | | MCAS Miramar, CA |
| 2-3 | Salinas, CA | | MCAS Miramar, CA | |
| 2-3 | | | Jackson, MS | |
| 9-10 | Little Rock AFB, AR | San Francisco, CA | Little Rock, AFB, AR | Daytona Beach, FL |
| 16-17 | El Paso, TX | Dobbins AFB, GA | El Paso, TX | Atlanta, GA |
| 23-24 | | NAS Jacksonville, FL | Washington, DC | |
| 30-31 | Houston, TX | Ft Worth Alliance, TX | Ft Worth Alliance, TX | |
| | Cocoa Beach, FL | | | |
| November 6-7 | Lackland AFB, TX | Homestead ARB, FL | Lackland AFB, TX | |
| 6-7 | | | Homestead ARB, FL | |
| 11-14 | | | Ft Bragg, NC | |
| 12-13 | | NAS Pensacola, FL | | |
| 13-14 | Nellis AFB, NV | | | |

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.

NOISE ABATEMENT PROCEDURES COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

AEROBATIC PRACTICE AREA Jack Edwards Airport (JKA) Gulf Shores, AL

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

Fayette County (FYE), Somerville, Tennessee

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01-19 from the surface to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

CONTROLLED FIRING AREA Milan, Tennessee

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z†, Sat 1530-2230Z† Sun 1230-1700Z†.

Helicopter Activity Mosby Army Heliport, Dahlonga, GA Area

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864-3367.

NIGHT VISION LIGHTS OUT OPERATIONS North Carolina, South Carolina

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41'N, Lon 78°30'W; to Lat 34°00'N, Lon 78°30'W; to Lat 34°00'N, Lon 80°00'W; to Lat 36°00'N, Lon 80°30'W; to point of beginning.

Times of use: Sunset to sunrise, daily.

Helicopter Activity Camp Blanding, Starke, Florida Area

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57'7.84"N; 81°58'47.32"W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon-Sat 1300-0500Z†, 1300-2000Z† Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533-3113/3352.

Cuban Flight Advisory (UNTIL FURTHER NOTICE)

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

LASER LIGHT DEMONSTRATIONS

Lake Buena Vista, Florida

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Lake Buena Vista, Florida

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28°22'N, long 81°32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Miami, Florida

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Miami Beach, Florida

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46"N/Long 80°08"W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Orlando, Florida

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24'N, Long 81°27'W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Decatur, Georgia

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45' 55"N/Long 84° 17' 39"W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

Clemson, South Carolina

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

LASER LIGHT EXPERIMENT**Arecibo Observatory, Puerto Rico**

Location: 18°–20'–37"N 66°–45'–11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

MEMPHIS, TN**MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

NASHVILLE, TN**NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1 mile of the departure end of parallel runways, due to noise abatement restrictions.

CHARLOTTE, NC**CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

AIRSPACE DELEGATED TO MACDILL AFB, FL

From 1100–2300 UTC (0700–1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to MacDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located 1½ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

Indianapolis ARTCC**NABB, INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

HELICOPTER ACTIVITY ORLANDO, FL AREA.

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

CAUTION–TETHERED AEROSTAT RADAR SYSTEM (TARS)

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R-2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

| | |
|----------------------|------------|
| North Atlantic area: | 123.45 MHz |
| Caribbean area: | 123.45 MHz |
| Pacific area: | 123.45 MHz |

ST. PETERSBURG, FLORIDA

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

GEORGIA

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield-Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT (BCT), FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

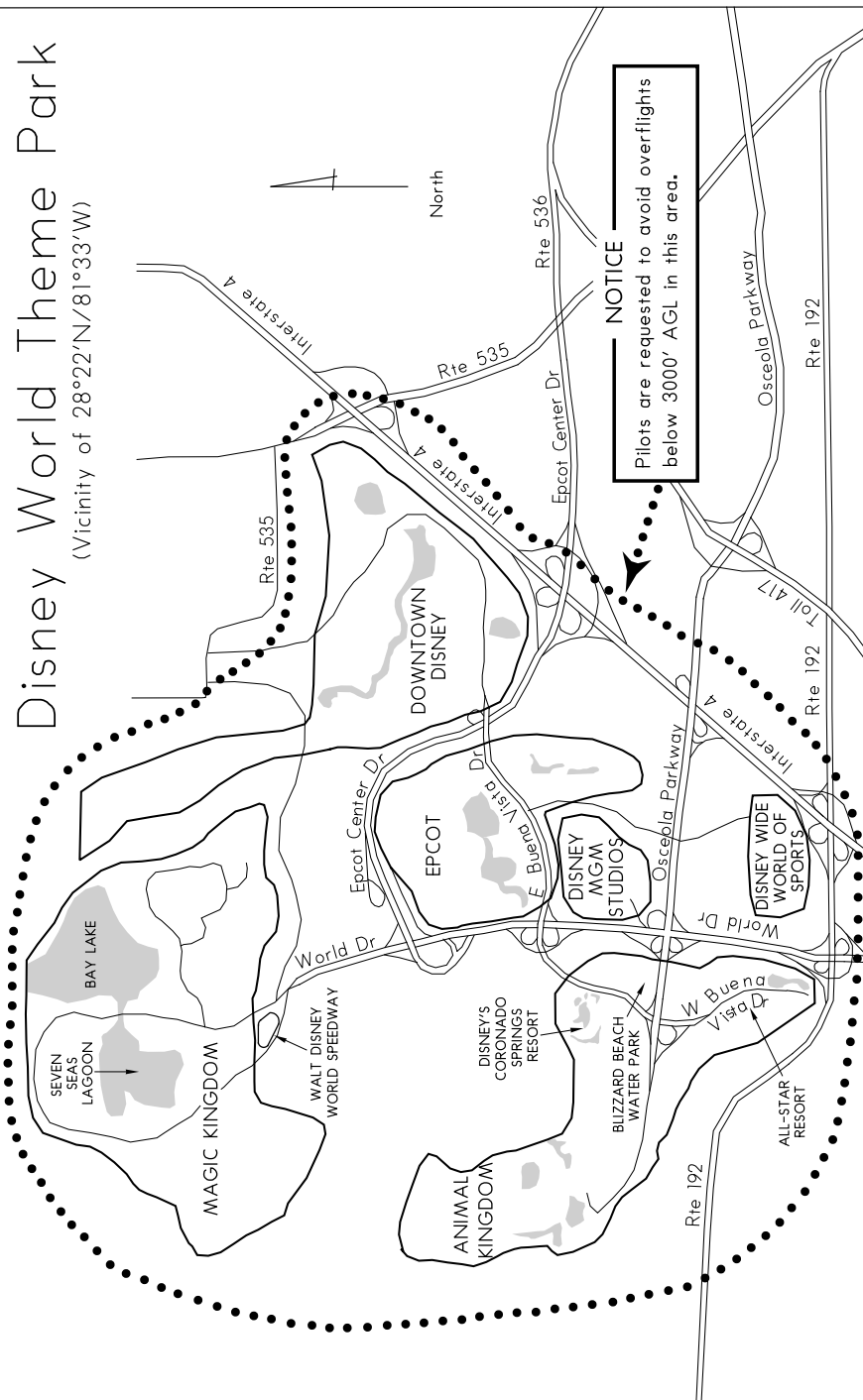
The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

| Airport/Ident | Runway No. | Airport/Ident | Runway No. |
|-----------------------------------|------------|--------------------------------|------------|
| Albuquerque, NM (ABQ) | 08 | Milwaukee, WI (MKE) | 01L |
| Anchorage, AK (ANC) | 07R | Minneapolis, MN (MSP) | 30L |
| Andrews AFB, MD (ADW) | 01L | Nashville, TN (BNA) | 02L |
| Atlanta, GA (ATL) | 09R | New Orleans, LA (MSY) | 10 |
| Baltimore, MD (BWI) | 10 | New York, NY (JFK) | 04R |
| Bismarck, ND (BIS) | 31 | New York, NY (LGA) | 22 |
| Boise, ID (BOI) | 10R | Newark, NJ (EWR) | 04R |
| Boston, MA (BOS) | 04R | Oklahoma City, OK (OKC) | 35R |
| Charlotte, NC (CLT) | 36L | Omaha, NE (OMA) | 14R |
| Chicago, IL (ORD) | 10 | Ontario, CA (ONT) | 26L |
| Cincinnati, OH (CVG) | 36C | Philadelphia, PA (PHL) | 09R |
| Cleveland, OH (CLE) | 06R | Phoenix, AZ (PHX) | 08 |
| Dallas/Fort Worth, TX (DFW) | 17C | Pittsburgh, PA (PIT) | 10L |
| Denver, CO (DEN) | 35R | Reno, NV (RNO) | 16R |
| Des Moines, IA (DSM) | 31 | Salt Lake City, UT (SLC) | 34L |
| Detroit, MI (DTW) | 03R | San Antonio, TX (SAT) | 12R |
| El Paso, TX (ELP) | 22 | San Diego, CA (SAN) | 09 |
| Fairbanks, AK (FAI) | 01L | San Francisco, CA (SFO) | 28R |
| Great Falls, MT (GTF) | 03 | San Juan, PR (SJU) | 08 |
| Honolulu, HI (HNL) | 08L | Seattle, WA (SEA) | 16C |
| Houston, TX (IAH) | 26L | St. Louis, MO (STL) | 30R |
| Indianapolis, IN (IND) | 05L | Tampa, FL (TPA) | 36L |
| Jacksonville, FL (JAX) | 07 | Tulsa, OK (TUL) | 36R |
| Kansas City, MO (MCI) | 19R | Washington, DC (DCA) | 01 |
| Los Angeles, CA (LAX) | 24R | Washington, DC (IAD) | 01R |
| Memphis, TN (MEM) | 36L | Wichita, KS (ICT) | 01L |
| Miami, FL (MIA) | 08R | | |

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

Disney World Theme Park

(Vicinity of 28°22'N/81°33'W)



DISNEY WORLD THEME PARK**NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.

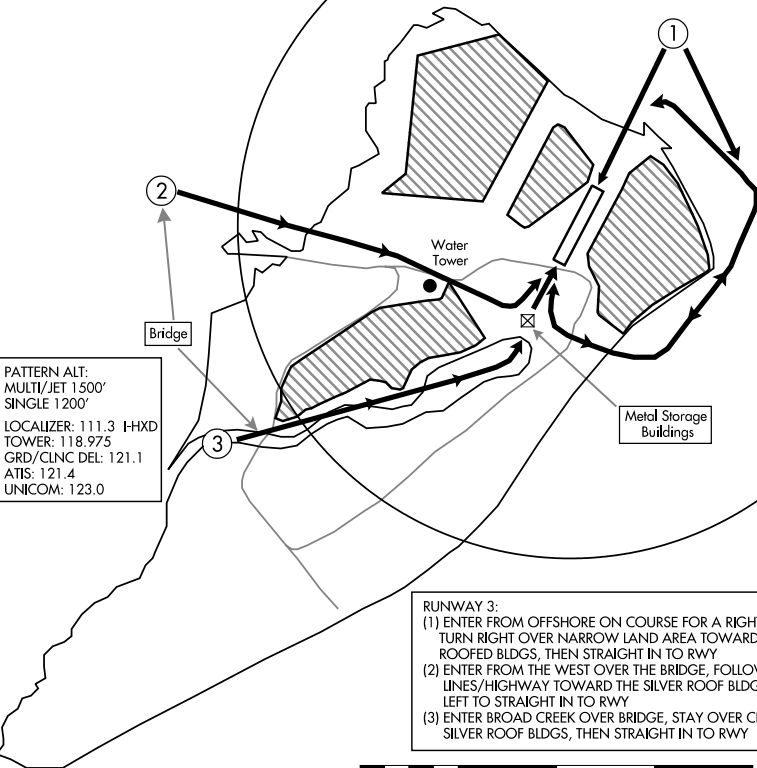
Hilton Head Island Airport VFR Arrivals Elevation 19'

RUNWAY 21:
 (1) INTERCEPT LOCALIZER NE OF ISLAND, FLY STRAIGHT IN TO RWY
 IF NECESSARY TO CIRCLE, FLY OVER AIRPORT TO SILVER ROOF
 BLDGS THEN TURN LEFT TO DOWNWIND OVER THE WATER
 NOTE: APPROACHING RWY 21 FROM THE OTHER AREAS, USE THE
 APPROPRIATE PROCEDURE FOR RWY 3 AND ASSUME LEFT
 DOWNWIND POSITION OVER WATER



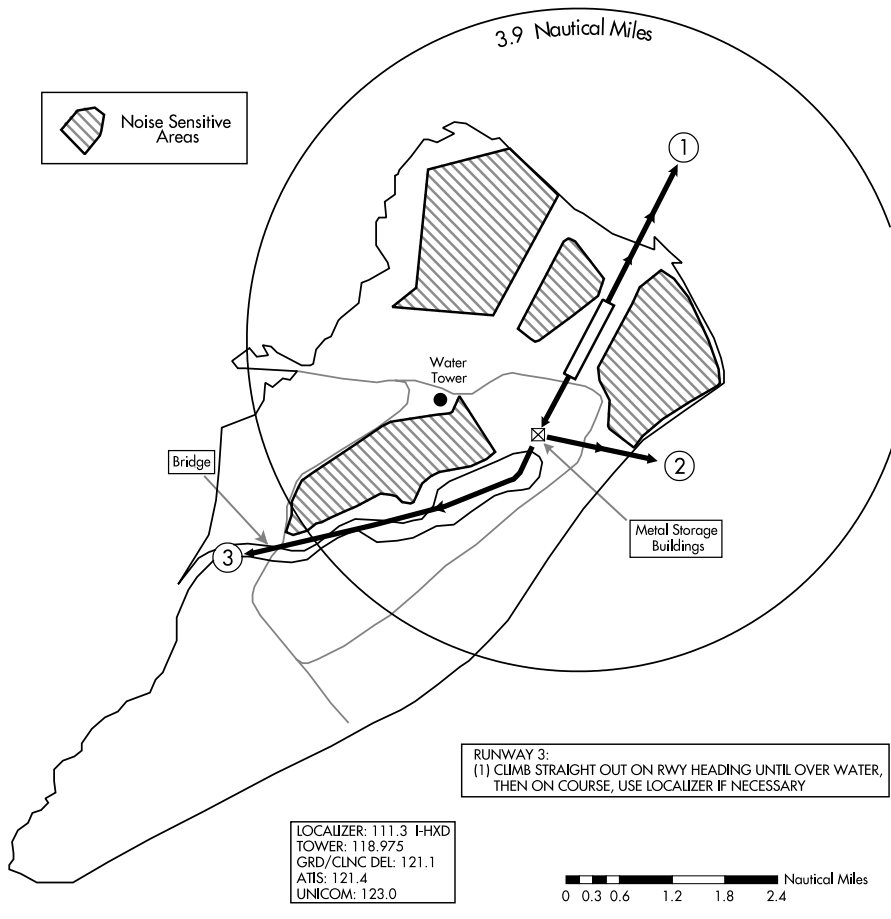
Noise Sensitive
Areas

3.9 Nautical Miles



Hilton Head Island Airport VFR Departures Elevation 19'

RUNWAY 21:
FLY RUNWAY HEADING UNTIL OVER THE SILVERROOF BLDGS, THEN:
(2) TURN LEFT TO PROCEED OVER THE SHORELINE TO DEPART OVER WATER
(3) CONTINUE OVER BROAD CREEK TO THE BRIDGE BEFORE TURNING ON COURSE



BOWMAN FIELD

LOUISVILLE, KY

TERMINAL AREA GRAPHIC NOTICE

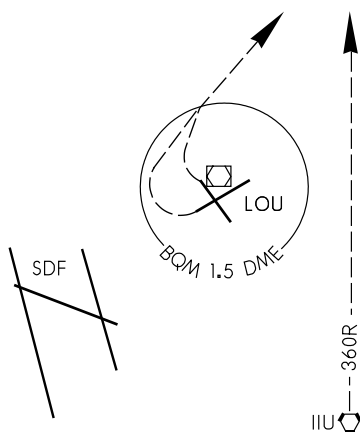
(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 33 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

ATIS
118.275
LOUISVILLE APP CON
132.075
BOWMAN TOWER★
119.5
GND CON
121.8
CLNC DEL
118.9



Remaining within $1\frac{1}{2}$ miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial.

WEATHER MINIMUMS: Ceiling 3000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

HOLLYWOOD/NORTH PERRY (HWO)**HOLLYWOOD, FL**

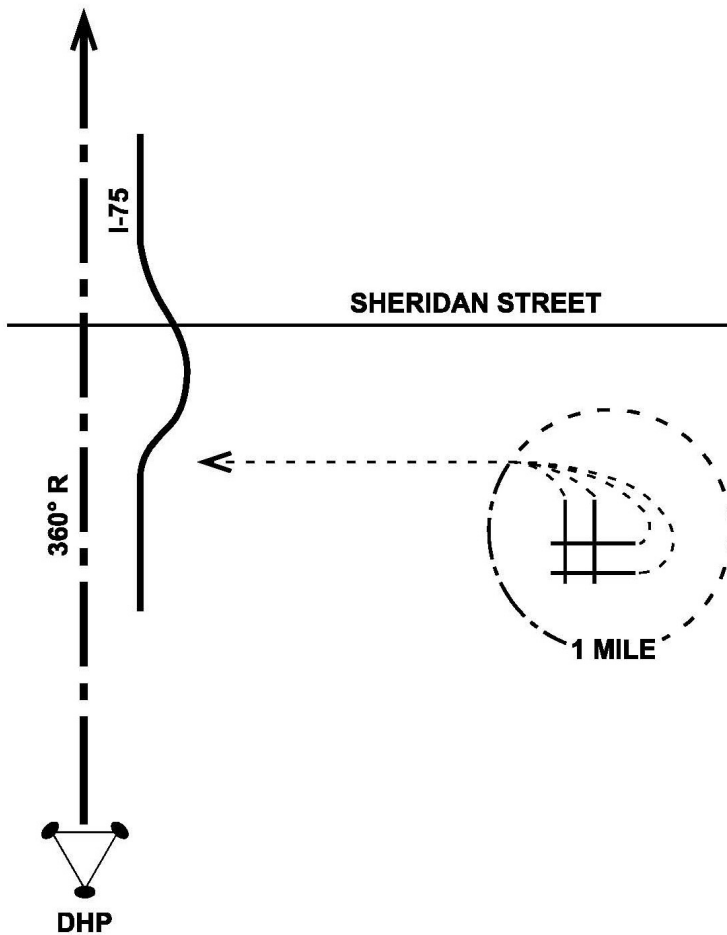
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

"SHERIDAN DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



ATIS 135.475

MIAMI APPROACH CONTROL 128.6

NORTH PERRY TOWER 132.1

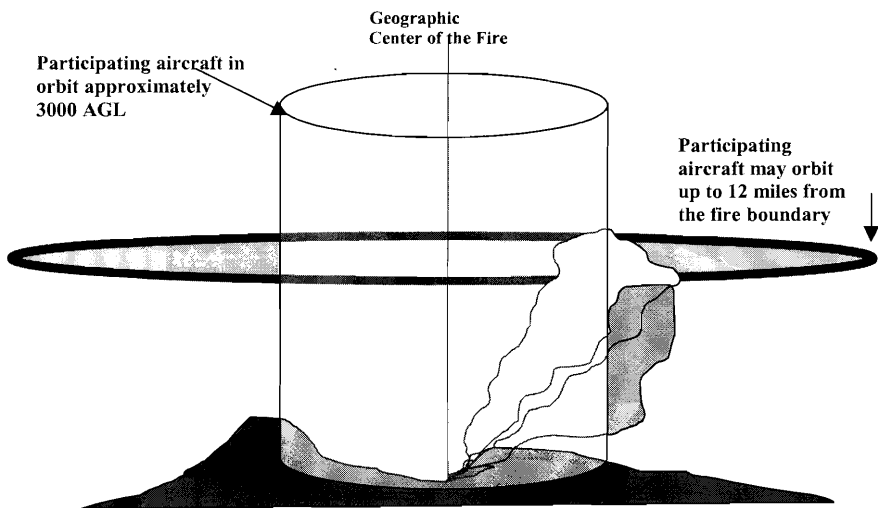
GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I-75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

DESTIN—FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

— North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

— East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAASafety.gov Knowledge Course at: http://faasafety.gov/gslac/ALC/course_catalog.aspx.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings 1-800-WX-BRIEF (1-800-992-7433)

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) 1-877-4TIBS-WX (1-877-484-2799)

Clearance Delivery Only 1-888-766-8267

Lifeguard Flights Only 1-877-LIF-GRD3 (1-877-543-4733)

Flights within DC SFRA & FRZ * 1-866-225-7410

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA
OVC008CB
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB
18/16 A2992 RMK SLP045 T01820159

| Forecast | Explanation | Report |
|----------------|---|---|
| TAF | Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report | METAR |
| KPIT | ICAO location indicator | KPIT |
| 091730Z | Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time | 091955Z |
| 091818 | Valid period: 2-digit date, 2-digit beginning, 2-digit ending times In U.S. METAR : <u>COR</u> rected ob; or <u>AUTOM</u> ated ob for automated report with no human intervention; omitted when observer logs on | COR |
| 15005KT | Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VariaBle</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260 | 22015G25KT |
| 5SM | Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in TAF <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction) Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"I"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>FeeT</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No change</u>) | 3/4SM R28L/2600FT |
| HZ | Significant present, forecast and recent weather: see table (on back) | TSRA |
| FEW020 | Cloud amount, height and type: <u>SKY</u> <u>Clear</u> 0/8, <u>FEW</u> >0/8-2/8, <u>SCA</u> tered 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OVerCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in METAR ; in TAF , only <u>CB</u> . <u>Vertical Visibility</u> for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, <u>CLeaR</u> for "clear below 12,000 feet" Temperature: degrees Celsius; first 2 digits, temperature <u>"I"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06 Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013) | OVC010CB 18/16 A2992 |

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

| Forecast | Explanation | Report |
|----------------------|---|---|
| WS010/31022KT | In U.S. TAF , non-convective low-level ($\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"/";</u> 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u> | RMK SLP045 T01820159 |
| FM1930 | In METAR , <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/</u> dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C | |
| TEMPO 2022 | <u>From</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces. | |
| PROB40 0407 | TEMPO rary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period | |
| BECMG 1315 | PROB ability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period | |
| | BECM inG: change expected during 2-digit hour beginning and 2-digit hour ending time period | |

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

| | | | |
|--|------------------------|--------------|------------------------------------|
| QUALIFIER | | | |
| Intensity or Proximity | | | |
| - Light | "no sign" Moderate | + Heavy | |
| VC Vicinity: but not at aerodrome; in U.S. METAR , between 5 and 10SM of the point(s) of observation; in U.S. TAF , 5 to 10SM from center of runway complex (elsewhere within 8000m) | | | |
| Descriptor | | | |
| MI Shallow | BC Patches | PR Partial | TS Thunderstorm |
| BL Blowing | SH Showers | DR Drifting | FZ Freezing |
| WEATHER PHENOMENA | | | |
| Precipitation | | | |
| DZ Drizzle | RA Rain | SN Snow | SG Snow grains |
| IC Ice crystals | PL Ice pellets | GR Hail | GS Small hail/snow pellets |
| UP Unknown precipitation in automated observations | | | |
| Obscuration | | | |
| BR Mist ($\geq 5/8$ SM) | FG Fog ($< 5/8$ SM) | FU Smoke | VA Volcanic ash |
| SA Sand | HZ Haze | PY Spray | DU Widespread dust |
| Other | | | |
| SQ Squall | SS Sandstorm | DS Duststorm | PO Well developed dust/sand whirls |
| FC Funnel cloud | +FC tornado/waterspout | | |

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, **Ceiling And Visibility OK** replaces visibility, weather and clouds if: visibility ≥ 10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number.....703-904-4400

RGNL AIR TRAFFIC DIVISIONS

| REGION | TELEPHONE |
|--------------------|--------------|
| Alaskan | 907-271-5464 |
| Central | 816-329-2500 |
| Eastern | 718-553-4502 |
| Great Lakes | 847-294-7202 |
| New England | 781-238-7500 |
| Northwest Mountain | 425-227-2500 |
| Southern | 404-305-5500 |
| Southwest | 817-222-5500 |
| Western Pacific | 310-725-6500 |

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

| ARTCC NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|----------------|---|---------------------|-------------------------|
| Albuquerque | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 505-856-4300 |
| Anchorage | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-269-1137 |
| Atlanta | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 770-210-7601 |
| Boston | 617-238-7001 | 7:30 a.m.-4:00 p.m. | 603-879-6633 |
| Chicago | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 630-906-8221 |
| Cleveland | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 440-774-0310 |
| Denver | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-651-4100 |
| Ft. Worth | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 817-858-7300 |
| Houston | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 281-230-5300 |
| Indianapolis | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 317-247-2231 |
| Jacksonville | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 904-549-1501 |
| Kansas City | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 913-254-8500 |
| Los Angeles | 661-265-8200 | 7:30 a.m.-4:00 p.m. | 661-265-8200 |
| Memphis | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 901-368-8103 |
| Miami | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 305-716-1500 |
| Minneapolis | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 651-463-5580 |
| New York | 718-995-5426 | 8:00 a.m.-4:40 p.m. | 516-468-1001 |
| Oakland | 310-725-3300 | 6:30 a.m.-3:00 p.m. | 510-745-3331 |
| Salt Lake City | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 801-320-2500 |
| Seattle | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 253-351-3500 |
| Washington | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 703-771-3401 |

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONs)

| TRACON NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|------------------|---|---------------------|-------------------------|
| Atlanta | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 404-669-1200 |
| Chicago | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 847-608-5509 |
| Dallas/Ft. Worth | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 972-615-2500 |
| Denver | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-342-1500 |
| Houston | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 281-230-8400 |
| New York | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 516-683-2901 |
| Northern CA | 310-725-3300 | 7:00 a.m.-3:30 p.m. | 916-366-4001 |
| Potomac | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 540-349-7500 |
| Southern CA | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 858-537-5800 |

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

| AIRPORT NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|--|---|---------------------|-------------------------|
| Albuquerque Intl Sunport, NM | 817-222-5006 | 8:00 a.m.-5:00 p.m. | 505-842-4366 |
| Andrews AFB, MD | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 301-735-2380 |
| Baltimore/Washington Intl Thurgood Marshall, MD | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 410-962-3555 |
| Boston Logan Intl, MA | 781-238-7001 | 7:30 a.m.-4:00 p.m. | 617-455-3100 |
| Bradley Intl, CT | 617-238-7001 | 7:30 a.m.-4:00 p.m. | 203-627-3428 |
| Burbank/Bob Hope, CA | 310-725-3300 | 7:00 a.m.-5:30 p.m. | 818-567-4806 |
| Charlotte Douglas Intl, NC | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 704-344-6487 |
| Chicago Midway, IL | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 773-884-3670 |
| Chicago O'Hare Intl, IL | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 773-601-7600 |
| Cleveland Hopkins Intl, OH | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 216-898-2020 |
| Covington/Cincinnati, OH | 708-294-7401 | 8:00 a.m.-4:30 p.m. | 606-767-1006 |
| Dallas/Ft. Worth Intl, TX | 817-222-5006 | 8:30 a.m.-5:00 p.m. | 972-615-2531 |
| Dayton Cox Intl, OH | 847-294-8400 | 7:30 a.m.-4:00 p.m. | 937-454-7300 |
| Denver Intl, CO | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-342-1600 |
| Detroit Metro, MI | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 734-955-5000 |
| Fairbanks Intl, AK | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-474-0050 |
| Fort Lauderdale Intl, FL | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 305-356-7932 |
| George Bush Intercontinental/Houston, TX | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 713-230-8400 |
| Hartsfield-Jackson Atlanta Intl, GA | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 404-669-1200 |
| Honolulu Intl, HI | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 808-840-6100 |
| Houston Hobby, TX | 817-222-5006 | 8:00 a.m.-5:00 p.m. | 713-847-1400 |
| Indianapolis Intl, IN | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 317-484-6600 |
| Kahului/Maui, HI | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 808-877-0725 |
| Kansas City Intl, MO | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 816-329-2700 |
| Las Vegas McCarran, NV | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 702-262-5978 |
| Los Angeles Intl, CA | 310-725-3300 | 7:00 a.m.-3:30 p.m. | 310-342-4900 |
| Louis Armstrong New Orleans Intl, LA | 817-222-5006 | 7:00 a.m.-4:30 p.m. | 504-471-4300 |
| Memphis Intl, TN | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 901-322-3350 |
| Miami Intl, FL | 404-305-5180 | 7:00 a.m.-4:00 p.m. | 305-869-5400 |
| Minneapolis/St. Paul, MN | 847-294-8400 | 8:00 a.m.-4:00p.m. | 612-713-4000 |
| Nashville Intl, TN | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 615-781-5460 |
| New York Kennedy Intl, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 718-656-0335 |
| New York La Guardia, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 718-335-5461 |
| Newark Liberty Intl, NJ | 718-995-5426 | 7:30 a.m.-4:00 p.m. | 973-565-5000 |
| Norman Y. Mineta San Jose Intl, CA | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 408-982-0750 |
| Ontario Intl, CA | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 909-983-7518 |
| Orlando Intl, FL | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 407-850-7000 |
| Philadelphia Intl, PA | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 215-492-4100 |
| Phoenix Sky Harbor Intl, AZ | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 602-379-4226 |
| Pittsburgh Intl, PA | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 412-269-9237 |
| Portland Intl, OR | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 503-493-7500 |
| Raleigh-Durham, NC | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 919-840-5544 |
| Ronald Reagan Washington National, DC | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 703-413-1535 |
| Salt Lake City, UT | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 801-325-9600 |
| San Antonio Intl, TX | 817-222-5006 | 8:00 a.m.-4:30 p.m. | 210-805-5507 |
| San Diego Lindbergh Intl, CA | 310-725-3300 | 8:00 a.m.-4:30 p.m. | 619-299-0677 |
| San Francisco Intl, CA | 310-725-3300 | 7:00 a.m.-3:30 p.m. | 650-876-2883 |
| San Juan Intl, PR | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 809-253-8663 |
| Seattle-Tacoma Intl, WA | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 206-768-2900 |
| St. Louis Lambert, MO | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 314-890-1000 |
| Tampa Intl, FL | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 813-371-7700 |
| Ted Stevens Anchorage Intl, AK | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-271-2700 |
| Teterboro, NJ | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 201-288-1889 |
| Washington Dulles Intl, DC | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 571-323-6372 |
| West Palm Beach, FL | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 561-683-1867 |
| Westchester Co, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 914-948-6520 |

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

Ⓡ ATLANTA CENTER

H-6-9-10-12, L-18-22-24-25-26-36, A-1
(KZTL)

Albemarle - 133.15
 Anniston - 134.95
 Athens - **127.5** 127.5 124.45 **120.425**
 Atlanta A - **135.0** 135.0
 Augusta - 128.1
 Birmingham - **128.725** 127.3
 Chattanooga - **133.175** 132.05 **126.675** **124.875**
 Columbus - **125.575** 120.45
 Foothills - **124.375**
 Gadsden - 133.8
 Glade Springs - 127.85
 Greensboro - 128.8 **124.425**
 Hampton - **127.125** **119.375**
 Hickory - 134.55 **132.975** 125.15
 Hinch Mountain - 133.6 **132.675** **125.925**
 Huntsville - **126.825**
 Jonesville - **125.025**
 Macon - 134.5 **126.425** 123.95
 Millen - 135.55
 Monroeville - 118.55
 Montgomery - **134.6** **128.025** **125.875** 120.55
 Mount Oglethorpe - 134.8 133.1 121.35 **127.05** 127.05
 Newport - **134.075** 127.55
 Owing - 135.35 **125.625** **123.725**
 Sandersville - **124.325**
 Sugarloaf Mountain - **121.5** 121.5
 Tri City - 127.85 **126.775** **120.725**
 Uniontown - 132.25

Ⓡ HOUSTON CENTER - 134.35

H-6-7-8-9, L-17-18-19-20-21-22
(KZHU)

Arr-Dep US - 135.77 134.95 **133.75** 133.4 **132.65** 132.4 128.3 **127.8** 125.75 120.35
 Mobile - 127.65 **125.775**

Ⓡ INDIANAPOLIS CENTER - 133.425 **132.775** **128.375** 125.55

H-5-9-10-12, L-16-25-26-27-29
(KZID)

124.525 119.55
 Evansville - **132.525** 128.3
 Livingston - **134.675** **126.925**
 London 2 - 126.57 124.625 121.325
 Lynch - 126.575
 New Hope - 124.625 121.175
 Portsmouth - 124.225 **120.275**
 Tri City - **124.575**
 Winchester - **128.22** 126.375 **123.775**

Ⓡ JACKSONVILLE CENTER

H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1
(KZJX)

Arr-Dep US-South Atlantic Control N of 31°30' — 135.05 S of 31°30'N 134.85
 Albany - 134.45 125.75
 Alma - **135.975** **133.3** 132.3
 Charleston - **135.05** **133.625** **132.475** 127.95 **124.075**
 Columbia - **127.875** 124.7
 Crestview - 134.15 **124.475** 120.2
 Daytona Beach - 134.0
 Dothan - 134.3
 Eglin - 132.1
 Florence - 134.35 133.45
 Gainesville - **135.65** 134.4 124.75
 Glynco - 126.75
 Jacksonville - **134.85** 126.35
 Lake City - 125.375
 Lowell - 135.75 133.325 **125.175**
 Millen - 132.5
 Myrtle Beach - **135.05** 128.7

CONTINUED ON NEXT PAGE

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Panama City – 119.1
 Perry Foley – 127.8
 St. Augustine – **134.575 132.825 127.475 126.35**
 Savannah – **132.425 126.125** 120.85
 Tallahassee – 135.325 128.625 **128.075 125.05**
 Valdosta – 133.7 125.95

® MEMPHIS CENTER — 127.975 124.025
H-5-6-9, L-15-16-17-18-22-25-26**(KZME)**

Columbus – **134.775 133.125** 127.1
 Fayetteville – **132.55**
 Graham – 125.85 **124.275**
 Greenville – **133.075 124.925**
 Greenwood – 127.425
 Harrison – **133.025**
 Huntsville – 120.8
 Little Rock – **132.425 125.475**
 McKellar – 134.65 127.975 **126.45** 124.35
 Memphis – **135.225 118.625** 133.125
 Meridian – **128.275**
 Nashville – 133.85 **124.125 118.875**
 Nashville/Joelton 132.1
 Paducah – 133.65
 Shelbyville – 126.75
 South Fulton – 128.05 **127.975 122.275**
 Tupelo – **135.9** 135.9 134.4 **127.375 120.025**
 Walnut – **135.225 132.375**

® MIAMI CENTER
H-8, L-21-22-23-24, A-1**(KZMA)**

Avon Park – 134.55 127.2 **126.525**
 Fort Myers – 134.75 133.275
 Grand Bahama Island – 134.2
 Grand Turk – **135.2** 132.3
 Key West – 133.5 **132.2** 132.2 **124.7** 124.7
 Melbourne – **135.075 128.65** 124.1 **119.825**
 Miami – **132.95** 133.85 133.2 133.95 132.4 127.7 **126.325 124.7** 124.7
 Nassau – **134.8** 125.7
 Pahokee – **133.55** 132.45
 Sarasota – **133.9** 132.35 **128.225**
 Vero Beach – 135.7 132.25 **125.075**
 West Palm Beach – 135.175 133.4 132.15

CENTER REMARKS: All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

® SAN JUAN CENTER
H-2-3, L-5-6**(ZSU) (MJZS)**

Borinquen – **135.7** 135.7 124.35
 El Yunque – **134.3** 134.3 **128.65** 128.6 **125.0** 125.0 **118.75** 118.75 **118.15** 118.15
 Pico Del Este – **134.3** 134.3 **128.65** 128.65 **125.0** 125.0 **118.15** 118.15

CENTER REMARKS: All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

® WASHINGTON CENTER
H-9-10-12, L-24-25-26-29-34-35-36**(KZDC)**

Arr-Dep US – 135.5 **133.82 133.12** 132.55 **128.52** 127.7 **127.42 124.02** 123.85 **118.82**
 Green Bay – **133.725** 127.75
 Johnsonville – 135.2 **118.925**
 Manteo – 124.725
 New Bern – 135.5 **118.825**
 Rocky Mount – 118.475 **132.225**
 Sampson – 135.3
 Whaleyville – **133.825 128.525 127.425** 123.85
 Wilmington – 124.025

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

ANDERSON AFSS

AIKEN RCO 122.45
 ALLENDALE VOR 116.7T 122.1R
 ANDERSON RCO 122.2 123.6
 CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5
 CHESTERFIELD VOR/DME 108.2T 122.05R
 COLLIER'S VORTAC 113.9T 122.1R
 COLUMBIA VORTAC 114.7T 122.1R 122.65
 FLORENCE VORTAC 115.2T 122.1R 122.6
 FOOTHILLS VORTAC 113.4T 122.1R
 FORT MILL VORTAC 112.4T 122.1R
 GRAND STRAND VORTAC 117.6T 122.1R 123.6
 GREENWOOD VORTAC 115.5T 122.1R 122.625
 GREER RCO 122.2 122.65
 HILTON HEAD ISLAND RCO 122.55
 SPARTANBURG VORTAC 115.7T 122.1R
 VANCE VORTAC 110.4T 122.1R

ANNISTON AFSS

ANNISTON RCO 122.2 123.6
 BIRMINGHAM RCO 122.2 123.65
 BROOKLEY VORTAC 112.8T 122.1R
 CRIMSON VORTAC 117.8T 122.1R
 DECATUR RCO 122.6
 DOTHAN RCO 122.2 122.5
 EUFAULA VORTAC 109.2T 122.1R
 GADSDEN VOR/DME 112.3T 122.1R
 HAMILTON RCO 122.3
 HUNTSVILLE RCO 122.2
 MOBILE RCO 122.2 123.65
 MONROEVILLE VORTAC 116.8T 122.1R
 MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55
 MUSCLE SHOALS RCO 122.2 122.4
 SELMA RCO 122.4
 TALLADEGA VOR/DME 108.8T 122.05R
 TUSCALOOSA RCO 122.2
 TUSKEGEE VOR/DME 117.3T 122.1R
 VULCAN VORTAC 114.4T 122.1R
 WIREGRASS VORTAC 111.6T 122.1R

GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45
 CRESTVIEW RCO 122.0 122.2 122.45
 CROSS CITY VORTAC 112.0T 122.1R
 GATORS VORTAC 116.2T 122.1R
 GREENVILLE VORTAC 109.0T 122.1R
 LAKE CITY RCO 122.6
 MARIANNA VORTAC 114.0T 122.1R
 OCALA VORTAC 113.7T 122.1R
 PALATKA RCO 122.25
 PANAMA CITY VORTAC 114.3T 122.1R
 PENSACOLA RCO 122.2 122.6
 PERRY RCO 122.45
 ST AUGUSTINE RCO 122.3
 SAUFLEY VOR 108.8T 122.1R
 SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4
 TAYLOR VORTAC 112.9T 122.1R

JACKSON AFSS

CLARKSVILLE VOR/DME 110.6T 122.1R
DYERSBURG RCO 122.2 122.45
GRAHAM VORTAC 111.6T 122.1R 122.25
JACKS CREEK VOR/DME 109.4T 122.1R
JACKSON RCO 122.2 **122.65** 127.15
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

LOUISVILLE AFSS

BOWLING GREEN RCO 122.2 122.4
CENTRAL CITY VORTAC 109.8T 122.1R
CINCINNATI VORTAC 117.3T 122.1R
FALMOUTH VOR/DME 117.0T 122.1R
FRANKFORT VOR 109.4T 122.1R
HAZARD VOR/DME 111.2T 122.1R
LEXINGTON VORTAC 112.6T 122.1R
LONDON VORTAC 116.1T 122.1R 122.2 122.65
LOUISVILLE RCO 122.1R 122.2 **122.45**
MADISON RCO 122.3
NEW HOPE VOR/DME 110.8T 122.1R
NEWCOMBE VORTAC 110.4T 122.1R
OWENSBORO VOR/DME 108.6T 122.1R
PADUCAH RCO 122.2 122.5
PIKEVILLE RCO 122.05
SOMERSET RCO 122.55
YORK VORTAC 112.8T 122.1R

MACON AFSS

ALBANY RCO 122.6
 ALMA VORTAC 115.1T 122.1R 123.6
 ATHENS VORTAC 109.6T 122.1R
 ATLANTA VORTAC 116.9T 122.1R 122.2 122.6
 BRUNSWICK VORTAC 109.8T 122.1R 122.2
 CHOO CHOO VORTAC 115.8T 122.1R
 COLUMBUS VORTAC 117.1T 122.1R 122.65
 DANIEL RCO 122.3
 DUBLIN VORTAC 113.1T 122.1R 122.6
 GAINESVILLE RCO 122.55
 HARRIS RCO 122.35
 LAGRANGE VORTAC 115.6T 122.1R
 MACON RCO 122.1R 122.2 122.4
 MOULTRIE VOR/DME 108.8T 122.1R
 PEACHTREE VOR/DME 116.6T 122.1R
 ROME RCO 122.3
 SAVANNAH VORTAC 115.95T 122.1R 123.65
 STATESBORO RCO 122.6
 THOMASVILLE RCO 122.55
 TIFT MYERS RCO 122.35
 VALDOSTA VOR/DME 114.8T 122.1R 122.2
 VIENNA VORTAC 116.5T 122.1R
 WAYCROSS VORTAC 110.2T 122.1R

MIAMI AFSS 122.2 122.3 **122.55** 123.65**MIAMI IFSS** 127.9 126.9 126.7

DADE COLLIER RCO 122.3
 DAVIE RCO 126.7
 DOLPHIN VORTAC 113.9T 122.1R
 FORT MYERS RCO 122.1R 122.2 **122.65**
 FORT PIERCE RCO 122.55
 KEY WEST VORTAC 113.5T 122.1R 122.2 **123.65**
 LA BELLE VORTAC 110.4T 122.1R
 MARATHON RCO 122.6
 NAPLES RCO 123.6
 PAHOKEE VORTAC 115.4T 122.1R 122.35
 PALM BEACH VORTAC 115.7T 122.1R 122.4
 VIRGINIA KEY VOR/DME 117.1T 122.1R

NASHVILLE AFSS

BRISTOL RCO 122.2
CHATTANOOGA RCO 122.2 123.65
CROSSVILLE RCO 122.2 122.5
HINCH MOUNTAIN VORTAC 117.6T 122.1R
HOLSTON MOUNTAIN VORTAC 114.6T 122.1R
LIVINGSTON VORTAC 108.4T 122.1R
MCGHEE TYSON RCO 122.2 122.3
NASHVILLE RCO 114.1T 122.1R 122.2 122.55
SHELBYVILLE VOR/DME 109.0T 122.1R
VOLUNTEER VORTAC 116.4T 122.1R

RALEIGH AFSS

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R
CHARLOTTE RCO 122.4
COFIELD VORTAC 114.6T 122.1R
ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2
FAYETTEVILLE VOR/DME 108.8T 122.1R
GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65
HATTERAS RCO 122.3
HICKORY RCO 122.2 122.6
KINSTON VORTAC 109.6T 122.15R
LIBERTY VORTAC 113.0T 122.1R
NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4
PITT-GREENVILLE RCO 122.35
RALEIGH RCO 122.2 122.45 122.65
ROCKY MOUNT RCO 122.2 122.3
SANDHILLS VORTAC 111.8T 122.1R
SNOWBIRD VORTAC 108.8T 122.1R
SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3
TAR RIVER VORTAC 117.8T 122.1R
WILKESBORO RCO 122.4
WILMINGTON VORTAC 117.0T 122.1R 122.55

SAINT PETERSBURG AFSS

BROOKSVILLE RCO 122.3
FORT DRUM RCO 122.2
LAKELAND VORTAC 116.0T 122.1R
MELBOURNE VOR/DME 110.0T 122.1R 122.6
ORLANDO VORTAC 112.2T 122.1R 122.2 **122.65** 123.65
ORMOND BEACH VORTAC 112.6T 122.1R 122.4
PUNTA GORDA RCO 122.025
ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6
SARASOTA VORTAC 115.2T 122.1R
SEBRING RCO 122.25
TITUSVILLE RCO 123.6
VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

SAN JUAN AIFSS

BORINQUEN VORTAC 113.5T 122.1R
MAYAGUEZ VOR/DME 110.6T 122.1R
PONCE VOR/DME 109.0T 122.1R
ST CROIX VOR/DME 108.2T 122.1R
ST THOMAS VOR/DME 108.6T 123.6R
SAN JUAN RCO 126.7 123.65 122.2

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

ALABAMA

Liberty Park Building 1500, Suite 250
1500 Urban Center Drive
Vestavia Hills, AL 35242
Telephone: 205-731-1557

FLORIDA

Ft. Lauderdale Jet Center
1050 Lee Wagener Blvd.
Ft. Lauderdale, FL 33315
Telephone: 954-635-1300

5950 Hazeltine
National Drive Suite 500
Orlando, FL 32822-5023
Telephone: 407-812-7700
Fax: 407-812-7710

8600 NW 36th Street
Miami, FL 33166
Telephone: 305-716-3400

5601 Mariner St, Suite 310
Tampa, FL 33609
Telephone: 813-287-4900
Fax: 813-639-1551

GEORGIA

Campus Building
1701 Columbia Ave. Suite 2-110
College Park, GA 30337-2748
Telephone: 404-305-7200
Fax: 404-305-7215

KENTUCKY

1930 Bishop Lane
Waterson Towers, 11th Floor
Louisville, KY 40218
Telephone: 502-753-4200

NORTH CAROLINA

6433 Bryan Blvd.
Greensboro, NC 27409
Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233
Charlotte, NC 28273
Telephone: 704-319-7020

PUERTO RICO

525 F.D. Roosevelt Ave.
La Torre de Plaza, Suite 901
San Juan, PR 00918
Telephone: 787-764-2538

SOUTH CAROLINA

125-B Summer Lake Drive
West Columbia, SC 29170
Telephone: 803-765-5931

TENNESSEE

2 International Plaza Drive, Suite 700
Nashville, TN 37217
Telephone: 615-324-1300

2842 Business Park Drive, Bldg G
Memphis, TN 38118
Telephone: 901-322-8600

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations “pressurized” and “unpressurized” for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.
Sun..... 1300–2259 local time.
Mon thru Fri 0701–2259 local time.
Sat 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| ATLANTA METRO AREA | | |
| Chicago Midway (MDW) | (60–170 incl) V97 NELLO V311 HCH V51 CGT | 1200–0300 |
| Chicago O'Hare (ORD)..... | (60–170 incl) V97 NELLO V311 HCH V51 CGT V7 BEBEE | 1200–0300 |
| Cincinnati (CVG)..... | (80–170 incl) V97 VXV V115 AZQ V339 FLM | 1200–0300 |
| CINCINNATI METRO AREA (CVG, LUK) | | |
| Detroit/Wayne (DTW) | DQN MIZAR–STAR | 1100–0300 |
| | or (RNAV only) HAGOL (RNAV)–DP DQN MIZAR–STAR | 1100–0300 |
| Detroit Satellites: | | |
| Ann Arbor (ARB) | DQN CRUX–STAR | 1100–0300 |
| | or (RNAV only) HAGOL (RNAV)–DP DQN CRUX–STAR | 1100–0300 |
| Pontiac (PTK), | or (RNAV only) HAGOL (RNAV)–DP DQN CRUX–STAR | |

| 402 | | PREFERRED IFR ROUTES | |
|---|---|--|-----------------------|
| Terminals | | Route | Effective Times (UTC) |
| Willow Run (YIP) | (all others) DQN CRUXX–STAR..... | or (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR | |
| Windsor (CYQG), | or (all others) (RNAV only) HAGOL (RNAV)–DP DQN V272 KLINE VXV VXV064 LYNTN | | |
| Young (DET)..... | V275 KLINE VWV VWV064 LYNTN..... | or (RNAV only) HAGOL (RNAV)–DP DQN V275 KLINE VXV VXV 064 LYNTN | |
| From COVINGTON (CVG) only | | | |
| Atlanta (ATL) | BLUEGRASS–DP HYK V97 VXV V267 HRS V463 WOMAC | | 1100–0300 |
| Chicago Midway (MDW) | V128 VHP BVT V97 CGT | | 1100–0300 |
| Chicago O'Hare (ORD)..... | V128 VHP BVT V97 CGT V7 BEBEE | | 1100–0300 |
| Indianapolis (IND)..... | V128 VHP | | 1100–0300 |
| Knoxville (TYS)..... | (all others) BLUEGRASS–DP HYK V97 | or (RNAV only) KENLIN (RNAV)–DP HYK V97 | |
| Louisville (SDF) | CVG206 IIU055 IIU | | 1100–0300 |
| Pittsburgh (PIT) | (60–170 incl) (all others) RHOMM–DP YRK V44 JPU V117 WISKE WISKE–STAR..... | or (60–170) (RNAV only) GIPLE (RNAV)–DP YRK V44 JPU V117 WISKE WISKE–STAR..... | 1100–0300 |
| DAYTONA BEACH | | | |
| Miami (MIA) | (110 and below) V3 MLB V437 PHK V267 BRIKL.. | | 1300–0300 |
| FT LAUDERDALE METRO AREA (FLL, FXE, PMP) | | | |
| Cross City (CTY) | (at or below 50) DHP V97 LBV V157 LAL V7 | or (60–170) V511 LAL V7 | 1030–0300 |
| Daytona Beach (DAB) | (at or below 100) PBI V3 SMYRA | or (110–170) V159 TBIRD MLB V3..... | 1030–0300 |
| Ft. Myers (FMY)(RSW) | (at or below 50) DHP V521..... | | 1030–0300 |
| Ft. Pierce (FPR)..... | (at or below 100) V3..... | or (110–170) V159 TBIRD | 1030–0300 |
| Gainesville (GNV) | (at or below 50) DHP V97 LBV V157 | or (60–170) V511 LAL V157 | 1030–0300 |
| Jacksonville (JAX)..... | (at or below 90) PBI V3 OMN V51 CRG..... | or (130–170) ORL V267 CRG | 1030–0300 |
| Lakeland (LAL)..... | V159 VRB V3 OMN V51 CRG | or (at or below 50) DHP V97 LBV110 V157 | 1030–0300 |
| Melbourne (MLB) | or (60–170) V511..... | | 1030–0300 |
| Ocala (OCF)..... | (at or below 100) V3..... | or (110–170) FLL V159 TBIRD..... | 1030–0300 |
| Orlando (MCO) | (at or below 50) DHP V97 LBV V157 | or (60–170) V511 LAL V157 | 1030–0300 |
| | or (at or below 100) PBI V531 ORL..... | | 1030–0300 |
| | (110–170) V159 TBIRD V531 ORL | | 1030–0300 |
| SE. 23 SEP 2010 to 18 NOV 2010 | | | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Sarasota/Bradenton (SRQ) | (60–170) LBV V97 ROGAN | 1030–0300 |
| | or | |
| | (60–170) SRQ | 1030–3000 |
| | or | |
| | (at or below 50) DHP V97 ROGAN..... | 1030–0300 |
| | or | |
| | (60–170) ROGAN | 1030–0300 |
| Tallahassee (TLH) | (at or below 50) DHP V97 LBV V157 LAL V7 SZW . | 1030–0300 |
| | or | |
| | (60–170) V511 LAL V7 SZW | 1030–0300 |
| Tampa (TPA) | (60–170) LBV BRDGE–STAR | 1030–0300 |
| | or | |
| | (60–170) BRDGE BRDGE–STAR | 1030–0300 |
| | or | |
| | (at or below 50) DHP V97 PIE | 1030–0300 |
| | or | |
| | (60–170, GPS or DME/DME–IRU equipped) DEAKK DEAKK (RNAV)–STAR..... | 1030–0300 |
| | or | |
| | (60–170, GPS or DME/DME–IRU equipped) LBV DEAKK (RNAV)–STAR | 1030–0300 |
| Vero Beach (VRB)..... | (at or below 100) V3..... | 1030–0300 |
| | or | |
| | (110–170) V159 TBIRD | 1030–0300 |
| FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD) | | |
| Daytona Beach (DAB) | ORL..... | 1030–0300 |
| Ft. Lauderdale (FLL) | (RSW/FMY/PGD–prop/turbo) RSW V599 | 1030–0300 |
| | or | |
| | (RSW/FMY/PGD–turbo/jets) FORTL JINGL (RNAV)–STAR..... | 1030–0300 |
| | or | |
| | (APF/MKY prop/turbo) DRCT..... | 1030–0300 |
| | or | |
| | FORTL JINGL (RNAV)– STAR | 1030–0300 |
| Ft. Pierce (FPR)..... | V225 | 1030–0300 |
| Gainesville (GNV)..... | V7 LAL V157 | 1030–0300 |
| Jacksonville (JAX)..... | ORL V267 CRG | 1030–0300 |
| Lakeland (LAL)..... | V7 LAL..... | 1030–0300 |
| Melbourne (MLB) | V225 VRB | 1030–0300 |
| Miami (MIA)..... | V35 CURVE | 1030–0300 |
| | or | |
| | (all others) CYY CYY–STAR | 1030–0300 |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR | 1030–0300 |
| Orlando (MCO)..... | (Jets) LAL ORL | 1030–0300 |
| | or | |
| | (Turbo/Props) ORL | 1030–0300 |
| | or | |
| | (Jets) LAL MINEE–STAR..... | 1030–0300 |
| | or | |
| | (Jets) DOWNN MINEE–STAR..... | 1030–0300 |
| | or | |
| | (Turbo/Props) DOWNN MINEE–STAR..... | 1030–0300 |
| Ocala (OCF)..... | V7 LAL V157 | 1030–0300 |
| Tallahassee (TLH) | V7 SZW..... | 1030–0300 |
| Tampa (TPA) | (at or below 100) V35 PIE | 1030–0300 |
| | or | |
| | (110–170) RSW BRDGE–STAR | 1030–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR..... | 1030–0300 |
| Vero Beach (VRB)..... | V225 | 1030–0300 |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| GAINESVILLE (GNV) | | |
| Ft. Lauderdale (FLL)..... | (100 and below) V157 NEWER..... | 0000–2359 |
| Ft. Myers (FMY)..... | (100 and below) V157 LAL V521..... | 0000–2359 |
| Miami (MIA)..... | (100 and below) V157 LBV V529 V35 CURVE | 0000–2359 |
| Orlando (ORL)..... | (100 and below) V157 OCF V159 | 1100–0400 |
| Sarasota/Bradenton (SRQ)..... | (100 and below) V157 LAL | 0000–2359 |
| Tampa (TPA) | (100 and below) V157 OCF V581 DADES | 0000–2359 |
| JACKSONVILLE METRO AREA (JAX) | | |
| Miami (MIA)..... | (100 and below) V3 MLB V437 PHK V267 BRIKL.. | 1300–0300 |
| Tampa (TPA) | (100 and below) OCF V581 DADES..... | 0000–2359 |
| | or | |
| | (100 and below, GPS or DME/DME–IRU equipped) OCF V581 DADES (RNAV)–STAR | 0000–2359 |
| KEY WEST METRO AREA (NQX) | | |
| Daytona Beach (DAB)..... | RSW ORL | 1030–0300 |
| Ft Myers (RSW) | EYW | 1030–0300 |
| Fort Lauderdale (FLL)..... | (props) EYW V157 DHP | |
| | or | |
| | (jets-all others) EYW DVALL–STAR | 1030–0300 |
| | or | |
| | (jets-/E,/G,/R,/J,/L,/Q) EYW CORSO (RNAV)–STAR..... | 1030–0300 |
| Melbourne (MLB)..... | EYW PHK..... | 1030–0300 |
| Miami (MIA)..... | (props) EYW V157 | |
| | or | |
| | (Jets-all others) EYW DVALL–STAR..... | 1030–0300 |
| | or | |
| | (Jets-/E,/G,/R,/J,/L,/Q) EYW CORSO (RNAV)–STAR..... | 1030–0300 |
| Orlando (MCO)..... | (props) EYW RSW MINEE–STAR | |
| | or | |
| | (Jets) EYW RSW MINEE–STAR | 1030–0300 |
| Palm Beach (PBI) | EYW PHK..... | 1030–0300 |
| Sarasota/Bradenton (SRQ) | (at or below 100) EYW RSW V35 MURDO | 1030–0300 |
| | or | |
| | (110–170) EYW RSW V7 ROGAN..... | |
| Tallahassee (TLH) | EYW RSW V7 SZW | 1030–0300 |
| Tampa (TPA)..... | (at or below 100) EYW RSW V35 PIE..... | |
| | or | |
| | (110–170) EYW RSW V7 BRDGE–STAR | 1030–0300 |
| | or | |
| | (110–170, GPS or DME/DME–IRU equipped) EYW V225 | |
| | RSW V7 ROGAN DEAKK (RNAV)–STAR | 1030–0300 |
| Vero Beach (VRB)..... | EYW PHK V51 | 1030–0300 |
| LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16) | | |
| Ft Lauderdale (FLL) | (Jets only–all others) V7 RSW FORTL–STAR | 1030–0300 |
| Ft. Myers (FMY)..... | V521 | 1030–0300 |
| Ft Pierce (FPR)..... | (at or below 140) V441 DEARY V159 | 1030–0300 |
| | or | |
| | (150–170) VRB..... | 1030–0300 |
| Key West (EYW) | V7 RSW V225 | 1030–0300 |
| Miami (MIA)..... | (100 and below) V157 LBV V529 V35 CURVE | |
| | or | |
| | (all others) CYY CYY–STAR | 1030–0300 |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR | |
| Opa Locka (OPF) | (props/turbo) V511 NEWER..... | |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR..... | |
| Vero Beach (VRB)..... | (at or below 140) V441 DEARY V159 | 1030–0300 |
| | or | |
| | (150–170) VRB..... | 1030–0300 |
| West Palm Beach (PBI) | PHK..... | 1030–0300 |

SE. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective Times (UTC) |
|--|---|-----------------------|
| LEXINGTON (LEX) | | |
| Atlanta (ATL) | HYK V53 AZQ SOT WHINZ-STAR..... | |
| LOUISVILLE | | |
| Kansas City (MKC) | V4 PXV V190 SGF TYGER-STAR | 0000-2359 |
| Wichita (ICT)..... | V4 PXV V190 SGF V132 CNU V350 | 0000-2359 |
| MEMPHIS | | |
| Chicago Midway (MDW) | SPI MOTIF-STAR | 0000-2359 |
| Chicago O'Hare (ORD)..... | MAW V313 PNT V227 PLANO | 1100-0300 |
| | or | |
| | PNT V227 PLANO | 0000-2359 |
| MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51) | | |
| Cross City (CTY)..... | V97 LBV V157 LAL V7 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Daytona Beach (DAB) | (at or below 100) PBI V3 SMYRA | 1030-0300 |
| | or | |
| | (110-170) V437 MLB V3 | 1030-0300 |
| Ft Pierce (FPR)..... | (at or below 100) PBI V3 | 1030-0300 |
| | or | |
| | (110-170) V267 PHK V51 VRB | 1030-0300 |
| | or | |
| | FPR | |
| Gainesville (GNV) | V97 LBV V157 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Jacksonville (JAX)..... | (at or below 90) PBI V3 OMN V51 CRG..... | 1030-0300 |
| | or | |
| | (at 110) PHK V437 MLB V3 OMN V51 CRG..... | 1030-0300 |
| | or | |
| | (130-170) V267 CRG | 1030-0300 |
| Lakeland (LAL)..... | V97 LBV V157 LAL | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Melbourne (MLB) | (at or below 100) V3..... | 1030-0300 |
| | or | |
| | (120-170) PBI V531 TBIRD | 1030-0300 |
| New Orleans (MSY) | (below FL180) LBV SRQ AM | 1100-0300 |
| Ocala (OCF) | DHP V97 LBV V157 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Orlando (MCO)..... | (at or below 100) PBI V531 ORL..... | |
| | or | |
| | (110-170) V267 PHK GOOFY-STAR..... | 1030-0300 |
| Overwater Routes to the Northeast | PERMT ILM or PERMT DIW | |
| Sarasota/Bradenton (SRQ) | V97 ROGAN | 1030-0300 |
| Tallahassee (TLH) | DHP V97 LBV V157 LAL V7 SZW | 1030-0300 |
| Tampa (TPA)..... | V97 LBV BRDGE-STAR..... | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) V97 LBV | |
| | DEAKK | 1030-0300 |
| Vero Beach (VRB)..... | (at or below 100) PBI V3 | 1030-0300 |
| | or | |
| | (110-170) V267 PHK V51..... | 1030-0300 |
| | or | |
| | (110-170) VRB..... | 1030-0300 |
| NASHVILLE | | |
| Tallahassee (TLH) | RQZ TDG TGE RRS..... | 1100-2300 |
| ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB) | | |
| Ft Lauderdale (FLL) | (at or below 100) PHK V267 BRIKL..... | 1030-0300 |
| | or | |
| | (110-170) PHK V267 BRIKL..... | 1030-0300 |
| Ft Pierce (FPR)..... | V159 VRB | 1030-0300 |
| Key West (EYW) | RSW V225 | 1030-0300 |
| Miami (MIA)..... | (at or below 100) PHK V267 BRIKL..... | 1030-0300 |

| 406 | | PREFERRED IFR ROUTES | |
|---|--|--|-----------------------|
| Terminals | | Route | Effective Times (UTC) |
| West Palm Beach (PBI) | | (props/turbo props) V159 VRB V295 STOOP | |
| | | V492 | 1030-0300 |
| | | or | |
| | | (Jets only) PHK | 1030-0300 |
| | | or | |
| | | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | | DEARY VRB FRWAY (RNAV)-STAR | |
| PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA) | | | |
| Cross City (CTY) | | (at or below 140) V531 BAIRN OCF V159 | |
| | | or | |
| | | (150-170) LAL V7 | 1030-0300 |
| Daytona Beach (DAB) | | V3 SMYRA | 1030-0300 |
| | | or | |
| | | V531 TBIRD MLB V3 SMYRA | 1030-0300 |
| Ft. Myers (RSW) | | RSW | 1030-0300 |
| Jacksonville (JAX) | | (at or below 110) V3 VRB V51 CRG | |
| | | or | |
| | | (130-170) ORL V267 CRG | 1030-0300 |
| Lakeland (LAL) | | LBV V157 | 1030-0300 |
| | | or | |
| | | (SUA Dep) LAL | |
| Melbourne (MLB) | | (at or below 100) V3 | |
| | | or | |
| | | (120-170) PBI V531 TBIRD | 1030-0300 |
| Ocala (OCF) | | (at or below 140) V531 BAIRN OCF | |
| | | or | |
| | | (150-170) LAL OCF | |
| Orlando (ORL/MCO) | | V531 BAIRN GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast | | A699 STIFF AR7 | |
| Sarasota/Bradenton (SRQ) | | LBV V97 ROGAN | |
| | | or | |
| | | (SUA Dep) SRQ | |
| Tallahassee (TLH) | | (at or below 140) V531 BAIRN OCF V159 CTY V7 | |
| | | SZW | |
| | | or | |
| | | (150-170) LAL V7 SZW | 1030-0300 |
| Tampa (TPA) | | LBV BRDGE-STAR | |
| | | or | |
| | | BRDGE BRDGE-STAR | 1030-0300 |
| | | or | |
| | | (GPS or DME/DME-IRU equipped) DEAKK DEAKK | |
| | | (RNAV)-STAR | 1000-0300 |
| | | or | |
| | | (GPS or DME/DME-IRU equipped) LBV DEAKK | |
| | | (RNAV)-STAR | 1000-0300 |
| Vero Beach (VRB) | | (at or below 100) PBI V3 | |
| | | or | |
| | | (110-170) V531 TBIRD | 1030-0300 |
| From STUART (SUA) only: | | | |
| Cross City (CTY) | | (at or below 120) BAIRN OCF V159 | |
| | | or | |
| | | (130-170) LAL V7 | 1030-0300 |
| Lakeland (LAL) | | TBIRD V531 ODDEL V441 LAL | 1030-0300 |
| Ocala (OCF) | | TBIRD V531 BAIRN | 1030-0300 |
| Tallahassee (TLH) | | (at or below 120) BAIRN OCF V159 CTY V7 SZW .. | |
| | | or | |
| | | (130-170) LAL V7 SZW | 1030-0300 |
| SE. 23 SEP 2010 to 18 NOV 2010 | | | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| SARASOTA/BRADENTON AREA (SRQ) | | |
| Ft Lauderdale (FLL) | (at or below 100, below 210 kts) RSW V599 NEWER | |
| | or (110–170), below 210 kts) LBV V157 NEWER | |
| | or (at or above 210 kts) V579 RSW V7 KUBIC | |
| | or (all others) RSW FORTL–STAR | 1030–0300 |
| | or (/E, /G, /R, /J, /L, /Q) RXXAN JINGL (RNAV)–STAR | |
| Ft Myers (RSW) | V579 RSW | 1030–0300 |
| Orlando (MCO) | LAL MINEE–STAR | 1030–0300 |
| West Palm Beach (PBI) | SABEE JOOOE WLACE (RNAV)–STAR | |
| TALLAHASSEE AND CROSS CITY AREA | | |
| Ft Myers (FMY) | (120 and below) CTY V7 LAL V521 | 1100–0300 |
| Miami (MIA) | (170 and below) LAL V157 LBV V529 V35 CURVE | 1300–0300 |
| TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF) | | |
| Ft Lauderdale (FLL) | (Jets only) RSW V7 KUBIC FLL | |
| | or (all others) RSW FORTL–STAR | |
| | or (Turboprop–all others) RSW FORTL–STAR | 1030–0300 |
| | or (props only) V509 HALLR V511 NEWER | 1030–0300 |
| | or (GPS or DME/DME–IRU equipped) SABEE RXXAN JINGL (RNAV)–STAR | |
| Ft Myers (RSW) | PIE V579 RSW | |
| | or (Turbojets–GPS or DME/DME–IRU equipped) SRQ TYNEE (RNAV)–STAR | |
| Ft Pierce (FPR) | (at or below 140) V441 DEARY V159 | |
| | or (150–170) VRB | 1030–0300 |
| Key West (EYW) | PIE V35 RSW V225 | |
| | or V579 RSW V225 | 1030–0300 |
| Miami (MIA) | RSW V35 CURVE | 1030–0300 |
| | or (all others) CYY CYY–STAR | 1030–0300 |
| | or (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR | |
| Opa Locka (OPF) | (props) V509 HALLR V511 NEWER | |
| | or (turbo) RSW V7 KUBIC | |
| | or (turbo) V509 HALLR V511 NEWER | 1030–0300 |
| | or (jets) RSW CYY CYY–STAR | 1030–0300 |
| | or (Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR | |
| Orlando (MCO) | LAL MINEE–STAR (Max alt. 12,000 ft) | 1030–0300 |
| Vero Beach (VRB) | (at or below 140) V441 DEARY V159 | |
| | or (150–170) VRB | 1030–0300 |
| West Palm Beach (PBI) | RSW PHK | |
| | or (Turbojets–GPS or DME/DME–IRU equipped) SABEE JOOOE WLACE (RNAV)–STAR | |

SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

NORTHEAST

Traffic entering ZTL airspace V97 and East to V66 file:

| | |
|-------|--------------------------|
| ..... | VXV AWSON-STAR..... |
| ..... | SOT ODF AWSON-STAR..... |
| ..... | SUG ODF AWSON-STAR |
| ..... | SPA ODF AWSON-STAR..... |
| ..... | ELW ODF AWSON-STAR |

SOUTHEAST

Traffic entering ZTL airspace South of V66 to East of a line from ATL to MGR file:

| | |
|-------|-----------------------------|
| ..... | IRQ TRBOW-STAR |
| ..... | DBN TRBOW-STAR |
| ..... | MCN TRBOW-STAR..... |
| ..... | DBN JRAMS (RNAV)-STAR |
| ..... | IRQ TRBOW-STAR |
| ..... | MCN JRAMS (RNAV)-STAR..... |

Traffic originating South of a line from ATL to RDU to East of J89 file:

| | |
|-------|-----------------------------|
| ..... | DBN JRAMS (RNAV)-STAR |
| ..... | DBN TRBOW-STAR |
| ..... | IRQ JRAMS (RNAV)-STAR |
| ..... | IRQ TRBOW-STAR |

SOUTHWEST

Traffic entering ZTL airspace South of V278 to West of a line from ATL to MGR file:

| | |
|-------|----------------------------------|
| ..... | LDK V66 LGC DIFFI-STAR..... |
| ..... | MVC MGM LGC DIFFI-STAR |
| ..... | CEW MGM LGC DIFFI-STAR |
| ..... | SZW PZD CSG LGC DIFFI-STAR |
| ..... | V56 MGM LGC DIFFI-STAR |

NORTHWEST

Traffic entering ZTL airspace on V278 and North to West of V97 file:

| | |
|-------|--|
| ..... | IGB V278 VUZ V417 MAYES V325 DALAS |
| ..... | HAB V159 VUZ V417 MAYES V325 DALAS..... |
| ..... | MSL V325 DALAS..... |
| ..... | DCU V541 GAD V325 DALAS |
| ..... | RQZ BUNNI-STAR..... |
| ..... | BNA V5 GQO BUNNI-STAR..... |
| ..... | SYI V67 GQO BUNNI-STAR |
| ..... | BWG V243 GQO BUNNI-STAR |
| ..... | LVT V51 HCH V333 GQO BUNNI-STAR |
| ..... | HYK V333 GQO BUNNI-STAR |

SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|--|--------------------------------------|-----------------------------|
| Low Altitude IFR routes for traffic overflying the Charlotte Metro Area: | | |
| ..... | PSK V37 CAE (90 and 100 only) | 1100-0300 |
| ..... | SPA V54 LOCAS (90 and 100 only)..... | 1100-0300 |
| ..... | GRD V66 SDZ (30-100 only) | 1100-0300 |

HIGH ALTITUDE

| Terminals | Route | Effective Times (UTC) |
|-----------------------|--|-----------------------------|
| ATLANTA (ATL) | | |
| Austin (AUS) | WEONE J239 MEI AEX LFK..... | 1100-0300 |
| Baltimore (BWI)..... | EAONE SPA J14 RIC OTT-STAR | 1100-0300 |
| Boca Raton (BCT)..... | (GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)-STAR | 1100-0300 |
| Boston (BOS)..... | EATWO GRD J209 RDU J207 FKN J79 JFK ORW-STAR..... | 1100-0300 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------------|---|-----------------------|
| Chicago Midway (MDW) | (/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK (RNAV)–STAR | 1100–0300 |
| | or (Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT | 1100–0300 |
| Chicago O'Hare (ORD) | (non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX–STAR | 1100–0300 |
| | or (/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)–STAR | 1100–0300 |
| | or J89 IIU MZZ OXI | |
| Cincinnati (CVG) | NOTWO J43 VXV J91 HNN HARDU–STAR | 1100–0300 |
| Charlotte (CLT) | GRD ADENA (RNAV)–STAR | 1100–0300 |
| Cleveland (CLE) | SUMMT (RNAV)–DP VXV J91 BULEY J91 HNN VTT KEATN–STAR | |
| Columbus (CMH) | NOTWO J43 VXV J91 HNN BREMN–STAR | 1100–0300 |
| Denver (DEN) | WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE DANDD–STAR | 1100–0300 |
| Detroit/Wayne (DTW) | SUMMT (RNAV)–DP VXV J91 HNN WEEDA–STAR ... | |
| Eglin AFB (KVPS) | NOVSS (RNAV) DP SARGE RRS CEW | |
| Flint (FNT) | NUGGT (RNAV)–DP RAFTN FLM J43 ROD JXN V353 | |
| Fort Lauderdale (FLL) | SOONE J89 HITTR PIE FORTL–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) BRAVS (RNAV)–DP WALET OTK JINGL (RNAV)–STAR | 1100–0300 |
| Fort Myers (FMY and RSW) | (Turbojets–GPS or DME/DME–IRU equipped) THRSR (RNAV)–DP LUCKK SZW TYNEE (RNAV)–STAR | 1100–0300 |
| Gainesville (GNV) | SOONE J89 OTK | 1100–0300 |
| Houston (HOU) | (DME/DME–IRU or GPS–equipped) JAMMR AEX ROKIT (RNAV)–STAR | |
| | or (Non–advanced NAV only) JAMMR MEI AEX DAS–STAR | |
| Houston (IAH) | (Turbojets–DME/DME–IRU or GPS–equipped) JAMMR AEX TXMEX (RNAV)–STAR | |
| Kennedy (JFK) | EATWO GRD J209 ORF J121 SIE CAMRN–STAR | 1100–0300 |
| La Guardia (LGA) | EAONE AHN J208 HPW J191 PXT KORRY–STAR | 1100–0300 |
| Louisville (SDF) | NOONE HCH DARBY–STAR | 1100–0300 |
| Marco Island (MKY) | SOTWO J43 SZW PIKKR (RNAV)–STAR | |
| | or SOONE J89 J75 TEPEE ZEILR–STAR | 1100–0300 |
| Miami (MIA) | (all others) SOTWO SZW J43 PIE CYY–STAR | |
| | or (Turbojets–GPS or DME/DME equipped) THRSR (RNAV)–DP LUCKK SZW SSCOT (RNAV)–STAR | 1100–0300 |
| Minneapolis (MSP) | (all others) NOONE J89 IIU J89 BAE EAU–STAR | 1100–0300 |
| | or (RNAV only) COKEM (RNAV) DP CARPT BNA ENL IOW ALO KASPR–STAR | 1100–0300 |
| Naples (APF) | SOTWO J43 SZW PIKKR (RNAV)–STAR | |
| Newark (EWR) | GSO J14 J51 FAK DYLIN–STAR | 1100–0200 |
| | or (GPS or DME/DME–IRU equipped) GSO J14 J51 FAK PHLBO (RNAV)–STAR | 1100–0200 |
| Orlando (MCO) | SOONE J89 OTK LEESE–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) SOONE J89 OTK PIGLT (RNAV)–STAR | 1100–0400 |
| Orlando (ORL) | (GPS or DME/DME–IRU equipped) SOONE J89 OTK PIGLT (RNAV)–STAR | 1100–0400 |
| Panama City–Bay Co Intl (PFN) | NOVSS (RNAV) DP SARGE | |
| Pensacola Rgnl (PNS) | NOVSS (RNAV) DP SARGE | |

| 410 | | PREFERRED IFR ROUTES | |
|-------------------------------|---|-----------------------|--|
| Terminals | Route | Effective Times (UTC) | |
| Philadelphia (PHL) | EAONE SPA J14 J51 FAK DPNT-STAR | 1100-0300 | |
| Raleigh-Durham (RDU)..... | EATWO IRQ CAE BUZZY-STAR | 1100-0300 | |
| Sarasota/Bradenton (SRQ)..... | J43 SZW CLAMP-STAR | 1100-0300 | |
| Tampa (TPA) | SOTWO J43 SZW DARBS-STAR | 1100-0300 | |
| | or | | |
| | (GPS or DME/DME-IRU equipped) SOTWO J43 | | |
| | SZW FOXXX (RNAV)-STAR | 1100-0300 | |
| Teterboro (TEB)..... | (Advanced Nav Only) EAONE SPA J14 J51 FAK | | |
| | JAIKE-STAR..... | 1100-0300 | |
| | or | | |
| | (Non-Advanced Nav Only) EAONE SPA J14 J51 | | |
| | FAK BRV AML J227 J49 J70 LVZ LVZ-STAR | 1100-0300 | |
| Washington Natl (DCA)..... | (GPS or DME/DME-IRU equipped) EAONE SPA | | |
| | J14 RIC OJAAY (RNAV)-STAR | 1100-0300 | |
| | or | | |
| | EAONE SPA J14 RIC IRONS-STAR..... | | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) | | |
| | BRAVS (RNAV)-DP WALET OTK WLACE | | |
| | (RNAV)-STAR..... | 1100-0300 | |
| Windsor Locks (BDL) | EATWO GRD J209 RDU J207 FKN J79 JFK DPK | | |
| | DPK-STAR..... | 1100-0300 | |
| AUGUSTA (AGS) | | | |
| Kennedy (JFK) | GRD J209 ORF J121 SIE CAMRN-STAR | | |
| BIRMINGHAM (BHM) | | | |
| Baltimore (BWI)..... | ATL J14 RIC OTT-STAR | | |
| | or | | |
| | (GPS or DME/DME-IRU equipped) ATL J14 RIC | | |
| | RAVNN (RNAV)-STAR | | |
| Chicago Midway (MDW)..... | (/E/G/R/J/L/Q only) VUZ IIU OKK FISSK | | |
| | (RNAV)-STAR..... | 1100-0300 | |
| | or | | |
| | (non-advanced RNAV only) VUZ IIU OKK V285 | | |
| | CLEFT OXI CGT..... | 1100-0300 | |
| Chicago O'Hare (ORD) | MEM FTZ BDF BDF-STAR..... | 0000-2359 | |
| Detroit/Wayne (DTW)..... | (RNAV only) BNA IMPEL VHP FWA MIZAR-STAR | | |
| | or | | |
| | BNA CCT VHP FWA MIZAR-STAR..... | | |
| Houston (HOU)..... | (DME/DME-IRU or GPS-equipped) MEI AEX ROKIT | | |
| | (RNAV)-STAR..... | | |
| | (Non-advanced NAV only) MEI AEX DAS-STAR | | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) MEI | | |
| | AEX TXMEX (RNAV)-STAR | | |
| | or | | |
| | (Non-advanced NAV only) MEI AEX DAS-STAR | | |
| Washington Dulles (IAD)..... | ATL J14 J51 FAK COATT-STAR | | |
| Washington Natl (DCA)..... | ATL J14 RIC IRONS-STAR..... | | |
| | or | | |
| | (GPS or DME/DME-IRU equipped) ATL J014 | | |
| | RIC OJAAY (RNAV)-STAR | | |
| CHARLESTON (CHS) | | | |
| Baltimore (BWI)..... | J79 TYI J40 RIC OTT-STAR | 1100-0400 | |
| | or | | |
| | (GPS or DME/DME-IRU equipped) J79 TYI J40 | | |
| | RIC RAVNN (RNAV)-STAR | 1100-0400 | |
| Detroit/Wayne (DTW)..... | BKW GEMNI-STAR..... | | |
| Houston (HOU)..... | (GPS or DME/DME-IRU equipped) MGM J37 SJI | | |
| | COLUMBIA (RNAV)-STAR | | |
| | or | | |
| | (Non-advanced NAV only) MGM J37 SJI AEX | | |
| | DAS-STAR..... | | |
| Houston (IAH) | (DME/DME-IRU or GPS-equipped) MGM J37 SJI | | |
| | WOLDE (RNAV)-STAR..... | | |
| | or | | |
| | (Non-advanced NAV only) MGM J37 SJI | | |
| | GILCO-STAR | | |
| Philadelphia (PHL) | J121 SWL SWL034 RADDS VCN-STAR | 1100-0400 | |

PREFERRED IFR ROUTES

4

| Terminals | Route | Effective Times (UTC) |
|------------------------------|--|-----------------------|
| Washington Dulles (IAD)..... | J55 FLO J207 RDU FAK COATT-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR | |
| CHARLOTTE (CLT) | | |
| Baltimore (BWI)..... | MERIL RDU J52 RIC OTT-STAR..... | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR | 1100-0300 |
| Boston (BOS)..... | MERIL RDU J207 FKN J79 JFK ORW-STAR..... | |
| Chicago Midway (MDW) | SADIE HNN FWA GOSHEN-STAR..... | 1100-0300 |
| | or | |
| | SADIE HVQ APE J178 FWA GOSHEN-STAR..... | 1100-0300 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0300 |
| | or | |
| | (non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 1100-0300 |
| Cincinnati (CVG)..... | (RNAV only) HNV JAKIE (RNAV)-STAR..... | |
| | or | |
| | (all others) HNV HARDU-STAR | |
| Denver (DEN) | HARAY SPA SPA270 VVX125 VVX BNA FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR | 1100-0300 |
| Detroit/Wayne (DTW)..... | HUGO-DP ROBAY BKW GEMNI-STAR | |
| Houston (HOU)..... | (DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STAR..... | |
| | or | |
| | (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR | |
| | or | |
| | (DME/DME-IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)-STAR | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR..... | |
| | or | |
| | (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR | |
| Kennedy (JFK)..... | MERIL RDU J209 ORF J121 SIE CAMRN-STAR | |
| La Guardia (LGA)..... | MERIL RDU J55 HPW J191 PXT KORRY-STAR | 1100-0300 |
| Louisville (LOU)..... | SADIE LOZ V310 IU | 1100-0300 |
| Newark (EWR) | RDU FAK DYLIN-STAR..... | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Norfolk (ORF) | MERIL RDU TYI CVI V1 DRONE | 1100-0300 |
| Philadelphia (PHL) | MERIL RDU248 J51 FAK DPNT-STAR | 1100-0400 |
| Richmond (RIC) | MERIL RDU LVL..... | |
| Teterboro (TEB)..... | (Advanced Nav Only) MERIL RDU FAK JAIKE-STAR | 1100-0300 |
| | or | |
| | (Non-Advanced Nav Only) MERIL RDU FAK BRV AML J227 J49 J70 LVZ LVZ-STAR | 1100-0300 |
| Washington Dulles (IAD)..... | MERIL RDU248 J51 FAK COATT-STAR..... | 1100-0300 |
| Washington Natl (DCA)..... | MERIL RDU J52 RIC IRONS-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR | |
| Windsor Locks (BDL) | MERIL RDU J207 FKN J79 JFK DPK DPK-STAR..... | |
| CHATTANOOGA (CHA) | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| CINCINNATI (CVG) | | |
| Albany (ALB) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB..... | |

| Terminals | Route | Effective Times (UTC) |
|------------------------------|---|-----------------------|
| Allentown (ABE) | (RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY JST HAR..... | |
| Atlanta (ATL) | (RNAV only) BLUEGRASS—DP BWG ERLIN (RNAV)—STAR..... or (all others) BLUEGRASS—DP BWG ROME—STAR..... | |
| Baltimore (BWI)..... | V128 YRK HVQ J8 CSN OTT—STAR..... or (GPS or DME/DME—IRU equipped) V128 YRK HVQ J8 CSN RAVNN (RNAV)—STAR | |
| Birmingham (BHM) | BLUEGRASS—DP TRFWA LVT SYI VUZ | |
| Boca Raton (BCT)..... | (GPS or DME/DME—IRU equipped) BLUEGRASS—DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)—STAR..... or (GPS or DME/DME—IRU equipped) BLUEGRASS—DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)—STAR. | |
| Boston (BOS) | (RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER—STAR..... | |
| Chicago O'Hare (ORD)..... | (Advanced NAV only) JBNCH (RNAV)—DP MIE MZZR ROYKO (RNAV)—STAR | |
| | or (Non-Advance Nav only) HAGOL (RNAV)—DP DQN FWA KNOX—STAR..... or HAGOL (RNAV)—DP DQN FWA WATSN (RNAV)—STAR | |
| Dallas/Ft. Worth (DFW) | IIU PXV J131 LIT BYP | |
| Fort Lauderdale (FLL) | (GPS or DME/DME—IRU equipped) SILK (RNAV)—DP TRFWA NOTWO OTK JINGL (RNAV)—STAR..... or (all others) BLUEGRASS—DP HYK VXV J43 ATL J89 HITTR J75 FORTL—STAR | |
| Fort Myers (FMY) | (Turbojets, DME/DME—IRU or GPS) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR..... or (all others) BLUEGRASS—DP HKY VXV J43 SZW PIE JOSFF—STAR..... | |
| Fort Myers (RSW) | (GPS or DME/DME—IRU equipped) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR..... | 1100–0300 |
| | or (all others) BLUEGRASS—DP HYK VXV J43 SZW PIE JOSFF—STAR..... | |
| Harrisburg (MDT)..... | (RNAV only) ROCKT (RNAV)—DP AHTIY JST HAR..... | |
| Houston (HOU)..... | (GPS or DME/DME—IRU equipped) CHCLL (RNAV)—DP BWG J6 LIT J180 SWB ROKIT (RNAV)—STAR..... or (Non-advanced NAV only) BLUEGRASS—DP BWG J6 LIT J180 SWB DAS—STAR | |
| Houston (IAH)..... | (Turbojets—GPS or DME/DME—IRU equipped) LIT CHCLL (RNAV)—DP BWG J6 LIT J180 SWB TXMEX (RNAV)—STAR | |
| | or (all others) LIT J180 SWB BLUEGRASS—DP BWG J6 DAS—STAR | |
| Jackson (JAN)..... | (all others) BLUEGRASS—DP TRFWA LVT SYI VUZ JAN..... or (RNAV only) SILKS (RNAV)—DP TRFWA LVT SYI VUZ JAN | |
| La Guardia (LGA) | (RNAV only) ROCKT (RNAV)—DP AHTIY PSB MILTON—STAR..... | 1000–1800 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|---|-----------------------|
| Manchester (MHT)..... | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB ALB EEN | |
| Marco Island (MKY) | (all others) BLUEGRASS–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| | or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| Miami (MIA)..... | (Turbojets–GPS or DME/DME–IRU equipped) SILKS (RNAV)–DP TRFWA NOTWO SZW SSCOT (RNAV)–STAR | |
| | or (all others) BLUEGRASS–DP HYK VXV J43 ATL SZW J43 PIE CYY–STAR | |
| Mobile (MOB) | (all others) BLUEGRASS–DP TRFWA LVT SYI VUZ SJI | |
| | or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ SJI | |
| Naples (APF)..... | HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| Newark (EWR) | ROD J29 J584 SLT FQM–STAR | |
| Newburgh (SWF)..... | (RNAV only) ROCKT (RNAV)–DP ROCKT CADRE AHTIY PSB J49 HNK DNY V483 FILPS | |
| New Orleans (MSY) | (all others) BLUEGRASS–DP TRFWA LVT SYI VUZ J22 MEI RYTHM–STAR | |
| | or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ J22 MEI RHYTHM–STAR | |
| Orlando Executive (ORL)..... | (all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)–STAR | 1100–0400 |
| Orlando Intl (MCO) | (all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)–STAR | 1100–0400 |
| Philadelphia (PHL) | (RNAV only) ROCKT (RNAV)–DP AHTIY JST BUNTS–STAR | |
| Phoenix (PHX) | BLUEGRASS–DP IIU PXV J78C IRW J74C CNX ZUN BUNTR | |
| | or BLUEGRASS–DP IIU PXV J78C ZUN BUNTR | |
| | or CHCLL–DP IIU PXV J78C ZUN EAGUL | |
| | or CHCLL–DP IIU PXV J78C IRW J74C CNX ZUN EAGUL | |
| Portland (PWM)..... | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 ALB ENE | |
| Providence (PVD) | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK TEDDY–STAR | |
| Sarasota/Bradenton (SRQ)..... | (all others) BLUEGRASS–DP HYK VXV J43 SZW CLAMP–STAR | |
| | or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW CLAMP–STAR | |
| Tampa (TPA) | HYK VXV J43 SZW DARBS–STAR | |
| | or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J43 SZW FOXXX (RNAV)–STAR | |

| Terminals | Route | Effective Times (UTC) |
|-----------------------------------|--|-----------------------|
| Washington Dulles (IAD)..... | (all others) RHOMM-DP HVQ ROYIL-STAR | |
| | or | |
| | (RNAV only) GIPLE (RNAV)-DP HVQ SHANON | |
| | (RNAV)-STAR..... | |
| Washington Natl (DCA)..... | V128 YRK HVQ WZRRD-STAR | |
| | or | |
| | V128 YRK HVQ ELDEE (RNAV)-STAR..... | |
| West Palm Beach (PBI) | (GPS or DME/DME-IRU equipped) SILKS | |
| | RNAV-DP TRFWA NOTWO OTK WLACE | |
| | (RNAV-STAR)..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) KENLN | |
| | (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE | |
| | (RNAV-STAR)..... | |
| Wilkes Barre/Scranton (AVP) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| | ANTIY PSB LVZ..... | |
| Windsor Locks (BDL) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| | AHTIY PSB RKA SWEDE SWEDE-STAR..... | |
| DAYTONA BEACH (DAB) | | |
| Charlotte (CLT)..... | CRG J51 SAV J207 FLO CTF-STAR..... | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) CRG | |
| | J51 SAV HUSTN (RNAV)-STAR | |
| FORT LAUDERDALE METRO AREA | | |
| (FLL, FXE, PMP) | | |
| Albany (ALB)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JOANI LGA LGA055 TRUDE | |
| | V487 CANAN V130..... | |
| Atlanta (ATL) | ORL J81 CHESN SINCA-STAR | 1000-0300 |
| | or | |
| | (RNAV only) ORL J81 CHESN CANUK (RNAV) | |
| | -STAR | 1000-0300 |
| Baltimore (BWI) | (at or below 310) ORL J53 CRG J51 SAV J55 CHS | |
| | J165 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 | |
| | RIC OTT-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J55 CHS | |
| | J165 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) (at or below | |
| | 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC | |
| | RAVNN (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) (at or above | |
| | 330) J113 CRG J151 SAV J55 CHS J165 RIC | |
| | RAVNN (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU | |
| | equipped) ZAPPA PERMT AR16 ILM J40 RIC | |
| | RAVNN (RNAV)-STAR | 1000-0300 |
| Bedford (BED)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 | |
| | DIW WETRO CEBEE SWL J174 HTO ORW | |
| | GRAYM-STAR | |
| Beverly (BVY)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM-STAR | |
| | or | |

| PREFERRED IFR ROUTES | | 415 |
|-------------------------------|--|-----------------------|
| Terminals | Route | Effective Times (UTC) |
| Boston (BOS) | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR | 1000-0300 |
| | or (at or below 310) ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J55 CHS J79 JFK ORW-STAR | 1000-0300 |
| Bridgeport (BDR) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Charlotte (CLT) | (at or below 310) ORL J53 CRG J51 SAV J207 FLO CTF-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J207 FLO CTF-STAR | 1000-0300 |
| | or (at or above 330-Turbojets-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV HUSTN (RNAV)-STAR | 1000-0300 |
| | or (at or below 310-Turbojets-GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR | 1000-0300 |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR | 1000-0300 |
| | or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1000-0300 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1000-0300 |
| | or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 1000-0300 |
| | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | 1000-0300 |
| Cincinnati (CVG) | (all others) CTY J91 VXV HARDU-STAR | 1000-0300 |
| Cleveland (CLE) | or (RNAV) only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| | J113 LRG J53 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR | 1000-0300 |
| Columbus (CMH) | J20 ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR | 1000-0300 |
| Cross City (CTY) | J85 LLAKE CTY | 1030-0300 |
| Dallas/Fort Worth (DFW) | or CTY | |
| | LAL J73 SZW J2 CEW J50 AEX CQY | 1000-0300 |
| Danbury (DXR) | or SRQ Q100 REDFN Q105 HRV J58 AEX CQY | 1000-0300 |
| | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Daytona Beach (DAB) | J20 LLNCH MLB V3 | 1030-0300 |
| Denver (DEN) | LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | 1030-0300 |
| | or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | 1030-0300 |
| | J113 CRG J53 SPA HNN WEEDA-STAR | |
| Detroit/Wayne (DTW) | | |
| Detroit Satellites: | | |
| Ann Arbor (ARB) | ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX- STAR | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|-------------------------------------|--|-----------------------|
| Pontiac (PTK), Windsor (CYQG) | ORL J81 IRQ J85 DJB LLEE0-STAR | |
| Willow Run (YIP) | ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR | 1000-0300 |
| Young (DET)..... | ORL J81 IRQ J85 DJB LLEE0-STAR..... | 1000-0300 |
| East Hampton (HTO)..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 | |
| Farmingdale (FRG)..... | (Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Gainesville (GNV)..... | J85 LLAKE LAL GNV or LAL GNV | 1030-0300 |
| Groton/New London (GON)..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Hartford (HFD) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1..... | |
| Houston (IAH)..... | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR..... | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 SJI GILCO-STAR..... | 1000-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR..... | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE-STAR | 1000-0300 |
| Islip (ISP)..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (CRG) | ORL J53..... | 1030-0300 |
| Kennedy (JFK)..... | (Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 SIE CAMRN-STAR | 1000-0300 |
| | or (at or below 310) ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| La Guardia (LGA)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR | 1000-0300 |
| | or (at or below 310) ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR | 1000-0300 |
| Lawrence (LWM) | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | 1000-0300 |
| Manchester (MHT)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN..... | |
| Melbourne (MLB) | J113 LLNCH MLB | 1030-0300 |
| Minneapolis (MSP)..... | CTY J91 ATL J89 BAE EAU-STAR..... | 1000-0300 |
| Montreal (CYUL)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR | |
| Nantucket (ACK) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46..... | |

SE. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Nashville (BNA)..... | CTY J91 ATL GQO VOLLS-STAR..... | 1000-0300 |
| Newark (EWR)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM J109 FAK DYLIN-STAR..... | 1000-0300 |
| | or (at or below 310) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR..... | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped-at or below 310) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| Newburgh (SWF)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN)..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| New Orleans (MSY) | SRQ Q100 REDFN Q105 HRV..... | 1000-0300 |
| | or LAL J73 SZW J2 | 1000-0300 |
| Ocala (OCF)..... | J85 LLAKE LAL | 1030-0300 |
| | or LAL | 1030-0300 |
| Orlando (MCO) | J113 LLNCH GOOFY-STAR..... | 1030-0300 |
| Overwater Routes to the Northeast..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW | 1030-0300 |
| Overwater Routes to the Northwest | LBV J616 | 1030-0300 |
| | or LBV J616 SRQ Q100 REDFN Q105 HRV J58 | 1030-0300 |
| Philadelphia (PHL)..... | J113 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs CEDAR LAKE-STAR..... | 1000-0300 |
| | or (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR | 1000-0300 |
| Pittsburgh (PIT)..... | (at or below 310) ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| Poughkeepsie (POU)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR..... | |
| Raleigh-Durham (RDU) | (at or below 310) ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR..... | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1000-0300 |
| | or (Water-Turbojets) ZAPPA PERMT AR16 ILM BRADE-STAR..... | 1000-0300 |
| St Louis (STL)..... | THNDR CTY J151 VISQA QBALL-STAR..... | |
| | or (/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Sarasota/Bradenton (SRQ) | LBV J43 ROGAN | 1030-0300 |
| | or ROGAN | 1030-0300 |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|----------------------------------|--|-----------------------|
| Springfield/Chicopee (CEF) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR .. | |
| Tallahassee (TLH) | J85 LLAKE LAL SZW | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Tampa (TPA) | J85 THNDR LBV BRDGE-STAR | 1030-0300 |
| | or | |
| | BRDGE BRDGE-STAR..... | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J85 THNDR LBV DEAKK (RNAV)-STAR | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) ZAPPA PERMT AR16 ILM J109 BUF YOUTH-STAR | |
| Vero Beach (VRB)..... | J113 ARKES VRB | 1030-0300 |
| Washington Dulles (IAD) | (at or below 310) ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (at or below 310-GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| | (at or above 330-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV J207 RDU FAK BARIN-STAR..... | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (Water) ZAPPA PERMT AR16 ILM J109 FAK COATT-STAR | 1000-0300 |
| | or | |
| | (Water-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK BARIN-STAR | 1000-0300 |
| Washington Natl (DCA) | (at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR..... | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR..... | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC IRONS-STAR..... | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| Westfield (BAF) | (Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR .. | |
| Westhampton Beach (FOK)..... | (Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | (Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR..... | |

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Wilmington (ILM) | (Water–Turbojets–Overwater Routes to the NE) ZAPPA PERMT AR16 | |
| Windsor Locks (BDL) | (Water–Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK–STAR.. | |
| Worcester (ORH) | (Water–Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| FORT MYERS METRO AREA | | |
| (RSW, FMY, APF, MKY, PGD) | | |
| Daytona Beach (DAB) | ORL | 1030–0300 |
| Gainesville (GNV) | LAL | 1030–0300 |
| Houston (HOU) | (GPS or DME/DME–IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)–STAR | 1000–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)–STAR | |
| | or | |
| | (Non–advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS–STAR | |
| Houston (IAH) | (GPS or DME/DME–IRU equipped) SRQ Q100 LEV WOLDE (RNAV)–STAR | 1000–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)–STAR | 1000–0300 |
| | or | |
| | (Non–advanced NAV only) LAL J73 SZW J2 SJI GILCO–STAR | 1000–0300 |
| Jacksonville (CRG) | ORL J53 | 1030–0300 |
| Miami (MIA) | (all others) CYY CYY–STAR | 1030–0300 |
| | or | |
| | (/E, /G, /R, /J, /L, /Q) CYY DEEDS (RNAV)–STAR | 1030–0300 |
| Ocala (OCF) | LAL | 1030–0300 |
| Orlando (MCO) | LAL MINEE–STAR | 1030–0300 |
| | or | |
| | DOWNN MINEE–STAR | 1030–0300 |
| | or | |
| | LAL | 1030–0300 |
| | or | |
| | (Turbojets) ORL | 1030–0300 |
| | or | |
| | (Turbojets) DOWNN MINEE–STAR | 1030–0300 |
| Tallahassee (TLH) | LAL | 1030–0300 |
| Tampa (TPA) | RSW BRDGE–STAR | 1030–0300 |
| | or | |
| | V7 ROGAN J43 PIE | 1030–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR | 1030–0300 |
| Westbound destinations | SRQ Q100 LEV J86 | |
| | or | |
| | BAGGS Q102 LEV J86 | |
| | or | |
| | SRQ 100 REDFN Q105 HRV J58 | |
| From PAGE FLD (FMY) only: | | |
| Cincinnati (CVG) | (RNAV only) LAL CTY J91 VXV JAKIE (RNAV)–STAR or | |
| | (all others) LAL CTY J91 ATL VXV HARDU–STAR.... | |
| Cleveland Metro (CLE) | LAL CTY J91 HNN TVT KEATN–STAR | |
| Columbus (CMH) | LAL CTY J91 HNN BREMN–STAR | |
| Detroit/Wayne (DTW) | LAL CTY J91 VXV J43 FLM DQN MIZAR–STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Willow Run (YIP) | LAL CTY J91 VXV J43 FLM DQN CRUX–STAR | |
| Pontiac (PTK), Windsor (CYQG), Young (DET) | LAL J73 J119 TAY J85 DJB LLEEO–STAR | |
| La Guardia (LGA) | ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT KORRY–STAR | 1100–0300 |

| 420 | PREFERRED IFR ROUTES | | Effective Times (UTC) |
|--|--|--|-----------------------|
| Terminals | Route | | |
| Miami (MIA)..... | (Turbojets—GPS or DME/DME—IRU equipped) CYY SSCOT (RNAV)—STAR | | |
| Newark (EWR) | ORL J53 CRG J51 FAK DYLIN—STAR | | 1100—0400 |
| | or (GPS or DME/DME—IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)—STAR | | 1100—0400 |
| Washington Natl (DCA)..... | ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS—STAR | | 1000—0300 |
| From SW FLORIDA INTL (RSW) only: | | | |
| Atlanta (ATL)..... | RSW LAL J73 SZW LGC—STAR | | 1000—0300 |
| | or (RNAV only) RSW LAL J73 SZW HONIE (RNAV)—STAR | | 1000—0300 |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)—STAR | | 1000—0300 |
| | or (non—advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | | 1000—0300 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)—STAR | | 1000—0300 |
| | or (non—advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX—STAR | | 1000—0300 |
| Cleveland (CLE)..... | RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN—STAR | | |
| Columbus (CMH) | RSW LAL J73 J119 TAY J85 HVQ HNN BREMN—STAR | | 1000—0300 |
| Dallas/Ft. Worth (DFW) | RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY .. | | |
| | or RSW LAL J73 SZW J2 CEW J50 AEX CQY | | 1000—0300 |
| Denver (DEN) | RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL—STAR | | |
| | or RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD—STAR | | |
| Detroit/Wayne (DTW) | JOCKS ORL J53 SPA HNN WEEDA—STAR | | |
| Detroit Satellites: | | | |
| Ann Arbor (ARB), Willow Run (YIP) | LAL CTY J91 VXV J43 FLM DQN CRUX—STAR | | |
| Pontiac (PTK), Windsor (CYQG), Young (DET) | LAL J73 J119 TAY J85 DJB LLEEO—STAR | | |
| Indianapolis (IND) | RSW LAL CTY J91 ATL J89 IIU DECEE—STAR | | |
| Louisville (SDF) | RSW LAL CTY J91 ATL HCH DARBY—STAR | | |
| Miami (MIA)..... | (Turbojets—GPS or DME/DME—IRU equipped) CYY SSCOT (RNAV)—STAR | | |
| Minneapolis (MSP) | RSW LAL CTY J91 ATL J89 BAE EAU—STAR | | 1000—0300 |
| Nashville (BNA) | RSW LAL CTY J91 ATL GQO VOLLS—STAR | | |
| Pittsburgh (PIT) | RSW ORL J53 CRG J51 CAE PSK EKN IHD NESTO—STAR | | 1000—0300 |
| Raleigh—Durham (RDU)..... | RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE—STAR | | |
| St Louis (STL) | LAL J73 SZW J41 VUZ STL | | 1100—0300 |
| Washington Dulles (IAD)..... | RSW ORL J53 CRG J51 SAV J207 RDU FAK COATT—STAR | | 1000—0300 |
| | or (GPS or DME/DME—IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN—STAR | | 1000—0300 |
| Washington Natl (DCA) | RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS—STAR | | 1000—0300 |
| | or (GPS or DME/DME—IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)—STAR | | 1000—0300 |

| Terminals | Route | Effective Times (UTC) |
|--------------------------------------|--|-------------------------------------|
| GREENSBORO (GSO) | | |
| Chicago Midway (MDW) | PSK HNN FWA GOSHEN-STAR..... or PSK HVQ APE J178 FWA GOSHEN-STAR..... | 1100-0300 1100-0300 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ ROYKO (RNAV)-STAR or (non-advanced RNAV only) BOTTM FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 1100-0300 1100-0300 1100-0300 |
| Cincinnati (LUK) | PSK HVQ FLM | 0700-2300 |
| Detroit/Wayne (DTW)..... | BOTTM BKW GEMNI-STAR..... | |
| La Guardia (LGA)..... | J14 PXT KORRY-STAR..... | |
| Louisville (SDF)..... | VXV J99 GHATS EWO IJU | 0700-2300 |
| Newark (EWR) | J14 J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) J14 J51 FAK PHLBO (RNAV)-STAR | |
| GREER (GSP) | | |
| Detroit/Wayne (DTW)..... | SPA HMV HNN WEEDA-STAR | |
| HUNTSVILLE (HSV) | | |
| Chicago O'Hare (ORD) | MEM FTZ BDF BDF-STAR..... | 0000-2359 |
| Detroit/Wayne (DTW)..... | (RNAV only) BNA IMPEL VHP FWA MIZAR-STAR or BNA CCT VHP FWA MIZAR-STAR..... | |
| JACKSONVILLE METRO AREA (JAX) | | |
| Baltimore (BWI)..... | J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| Charlotte (CLT)..... | J53 IRQ UNARM-STAR | |
| | or J51 SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) J51 SAV HUSTN (RNAV)-STAR | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) J53 IRQ ADENA (RNAV)-STAR | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR..... | 0000-2359 |
| | or (Non-advanced RNAV only) SAV CAE HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Detroit/Wayne (DTW) | NOWAY J53 SPA HNN WEEDA-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) TAY J2 SJI COLUMBIA (RNAV)-STAR | |
| | or (Non-advanced NAV only) TAY J2 CEW J50 AEX DAS-STAR..... | |
| Houston (IAH)..... | (GPS or DME/DME-IRU equipped) TAY J2 SJI WOLDE (RNAV)-STAR or (Non-advanced NAV only) TAY J2 SJI GILCO-STAR..... | |
| La Guardia (LGA) | J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR..... | 1100-0400 |
| Newark (EWR) | CRG J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) CRG J51 FAK PHLBO (RNAV)-STAR | |
| Philadelphia (PHL) | J51 SAV J55 CHS J121 SWL SWL034 RADD VCN-STAR..... | 1100-0400 |

| 422 | | PREFERRED IFR ROUTES | |
|--|--|---|-----------------------|
| Terminals | | Route | Effective Times (UTC) |
| Tampa (TPA) | TAY LZARD-STAR | or (GPS or DME/DME-IRU equipped) TAY DADES (RNAV)-STAR | 1100-0400 |
| Washington Dulles (IAD)..... | SAV CHS J165 J109 FAK COATT-STAR | or (GPS or DME/DME-IRU equipped) SAV J207 RDU FAK BARIN-STAR | |
| Washington Natl (DCA)..... | J51 SAV J55 CHS J165 RIC IRONS-STAR | or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1100-0400 |
| KEY WEST METRO AREA (NQX) | | | |
| Daytona Beach (DAB)..... | RSW ORL | | 1030-0300 |
| Fort Lauderdale (FLL) | (all others) EYW DVALL-STAR | or (/E, /G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR | 1030-0300 |
| Fort Myers (RSW) | | | 1030-0300 |
| Melbourne (MLB)..... | PHK..... | | 1030-0300 |
| Miami (MIA)..... | (all others) EYW DVALL-STAR | or (/E, G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR . | 1030-0300 |
| Orlando (MCO) | RSW MINEE-STAR | | 1030-0300 |
| Palm Beach (PBI) | PHK..... | | 1030-0300 |
| Sarasota/Bradenton (SRQ)..... | RSW V7 ROGAN | | 1030-0300 |
| Tallahassee (TLH) | RSW LAL | or (at or above FL360) RSW TEPEE..... | 1030-0300 |
| Tampa (TPA) | RSW BRDGE-STAR | or (GPS or DME/DME-IRU equipped) RSW DEAKK (RNAV)-STAR | 1000-0300 |
| Vero Beach (VRB)..... | PHK..... | | 1030-0300 |
| KNOXVILLE (TYS) | | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO (RNAV)-STAR | or (non-advanced RNAV only) VXV HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Cleveland Metro (CLE) | VXV J91 BULEY J91 HNN TVT KEATN-STAR | | 0000-2359 |
| Detroit/Wayne (DTW)..... | VXV J91 HNN WEEDA-STAR | | |
| La Guardia (LGA) | BKW J42 GVE KORRY-STAR..... | | |
| LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16) | | | |
| Fort Lauderdale (FLL)..... | (Jets only-all others) RSW FORTL-STAR | | 1030-0300 |
| Key West Intl (EYW)..... | RSW J41 | | |
| Miami (MIA)..... | (Turbojets-GPS or DME/DME-IRU equipped) CYV SSCOT (RNAV)-STAR | | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) WLACE (RANV)-STAR | | 1030-0300 |
| LEXINGTON (LEX) | | | |
| Atlanta (ATL) | (RNAV only) AZQ SOT FLCON (RNAV)-STAR | | |
| Cleveland (CLE) | CVG ABERZ-STAR | | |
| LOUISVILLE METRO AREA (LOU, SDF) | | | |
| From BOWMAN FIELD (LOU) only | | | |
| Dallas/Ft Worth (DFW) | PXV J131 LIT BYP | | |
| Phoenix (PHX) | FAM J78 ABQ J18..... | or FAM J78 IRW J74 SJN J18..... | |

| Terminals | Route | Effective Times (UTC) |
|---------------------------------|---|-----------------------|
| From LOUISVILLE INTL (SDF) only | | |
| Atlanta (ATL) | MYS BWG ROME-STAR | |
| | or | |
| | (RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR | |
| Cleveland Metro (CLE) | CVG ZABER-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SWB ROKIT | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SWB DAS-STAR | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) SWB | |
| | TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SWB DAS-STAR | |
| MEMPHIS (MEM) | | |
| Baltimore (BWI) | J42 BKW J147 CSN OTT-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW J147 | |
| | CSN RAVNN (RNAV)-STAR | |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) MGM SZW | |
| | PRRIE (RNAV)-STAR | |
| Boston (BOS) | J42 BNA J46 VXV SPA SPA100 J209 RDU J207 | |
| | FKN J79 JFK ORW-STAR | |
| | or | |
| | J118 SPA SPA100 J209 RDU J207 FKN J79 JFK | |
| | ORW-STAR | |
| Cincinnati (CVG) | (RNAV only) J29 PXV SARGO (RNAV)-STAR | |
| | or | |
| | (all others) J29 PXV MOSEY-STAR | |
| Cleveland (CLE) | PXV ZABER-STAR | |
| Denver (DEN) | RZC PER GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW) | J29 PXV VHP FWA MIZAR-STAR | |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) LIT J180 SWB | |
| | ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) LIT | |
| | J180 SWB TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR | |
| Kennedy (JFK) | J118 SPA SPA100 J209 ORF J121 SIE | |
| | CAMRN-STAR | |
| La Guardia (LGA) | J42 GVE KORRY-STAR | |
| Louisville (SDF) | BNA BNA037 BARRY EWO | |
| | or | |
| | Q29 SIDAE CHERI CHERI-STAR | |
| Minneapolis (MSP) | J35 STL IOW ALO KASPR-STAR | 1300-0300 |
| Newark (EWR) | J42 GVE DYLIN-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 GVE | |
| | PHLBO (RNAV)-STAR | |
| Orlando (ORL/MCO) | MGM SZW J43 PIE LAL | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MGM SZW J43 | |
| | PIE COSTR (RNAV)-STAR | 1100-0400 |
| | or | |
| | J41 MGM S2W J43 PIE LAL | |
| Philadelphia (PHL) | J42 GVE DPNT-STAR | |
| Pittsburgh (PIT) | J29 PXV IIU HNN WISKE-STAR | |
| Sarasota/Bradenton (SRQ) | MGM SZW CLAMP-STAR | |
| Tampa (TPA) | MGM SZW DARBS-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MEM SZW | |
| | FOXX (RNAV)-STAR | 1100-0400 |

| Terminals | Route | Effective Times (UTC) |
|--------------------------------|---|-----------------------|
| Washington Dulles (IAD)..... | J42 BKW ROYIL–STAR..... | 1100–1830 |
| | or | |
| | PXV IIU J8 HVQ SHNON (RNAV)–STAR | 1830–2230 |
| | or | |
| Washington Natl (DCA)..... | J42 BKW SHNON (RNAV)–STAR | 2230–0300 |
| | or | |
| | PXV IIU J8 HVQ ROYIL–STAR | 1830–2230 |
| | J42 BKW WZRRD–STAR..... | |
| West Palm Beach (PBI) | (GPS or DME/DME–IRU equipped) J42 BKW | |
| | ELDEE (RNAV)–STAR..... | |
| Windsor Locks (BDL) | MGM SZW WLACE (RNAV)–STAR..... | |
| | J42 BNA J46 VXV SPA SPA100 J209 RDU J207 | |
| | FKN J79 JFK DPK DPK–STAR | |
| MIAMI METRO AREA | | |
| (MIA, HWO, OPF, TMB, HST, X51) | | |
| Albany (ALB)..... | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JOANI LGA LGA055 TRUDE | |
| | V487 CANAN V130 | |
| Atlanta (ATL) | J81 CHESN SINCA–STAR..... | 1000–0300 |
| | or | |
| | (RNAV only) J81 CHESN CANUK (RNAV)–STAR | 1000–0300 |
| Baltimore (BWI) | J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC | |
| | OTT–STAR | 1000–0300 |
| | or | |
| | (Water–Turbojets) VALLY PERMT AR16 ILM J40 | |
| | RIC OTT–STAR | 1000–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) J53 CRG J51 | |
| | SAV J55 CHS J79 TYI J40 RIC RAVNN | |
| | (RNAV)–STAR..... | 1000–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) VALLEY PERMT | |
| | AR16 ILM J40 RIC RAVNN (RNAV)–STAR..... | 1000–0300 |
| Bedford (BED)..... | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM–STAR | |
| | or | |
| | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J174 HTO ORW | |
| | GRAYM–STAR | |
| Beverly (BVY)..... | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM–STAR | |
| | or | |
| | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J174 HTO ORW | |
| | GRAYM–STAR | |
| Boston (BOS) | J53 CRG J51 SAV J55 CHS J79 JFK ORW–STAR ... | 1000–0300 |
| | or | |
| | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK ORW–STAR | |
| Chicago Midway (MDW)..... | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK | |
| | FISSK (RNAV)–STAR..... | 1000–0300 |
| | or | |
| | (non–advanced RNAV only) CTY J91 ATL J89 IIU | |
| | OKK V285 CLEFT OXI CGT | 1000–0300 |
| Chicago O’Hare (ORD) | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT | |
| | GLAZR HOPAP VOSTK HEVAN MZZ ROYKO | |
| | (RNAV)–STAR..... | 1000–0300 |
| | or | |
| | (non–advanced RNAV only) LAL CTY J91 ATL | |
| | CADIT GLAZR HOPAP VOSTK HEVAN MZZ | |
| | MZZ344/33 OXI KNOX–STAR..... | 1000–0300 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|---|-----------------------|
| Cincinnati (CVG)..... | (RNAV only) CTY J91 VXV JAKIE (RNAV)–STAR | |
| | or | |
| | (all others) CTY J91 VXV HARDU–STAR..... | 1000–0300 |
| Columbus (CMH)..... | J81 IRQ J53 SPA J85 HVQ HNN BREMN–STAR | |
| Cross City (CTY)..... | LAL CTY | 1030–0300 |
| Dallas/Fort Worth (DFW) | J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY . | 1000–0300 |
| | or | |
| | LAL J73 SZW J2 CEW J50 AEX CQY..... | 1000–0300 |
| Danbury (DXR) | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE V139 RICED | |
| | RICED–STAR..... | |
| Daytona Beach (DAB) | J53 HEDLY MLB V3 or MLB V3..... | 1030–0300 |
| Denver (DEN)..... | LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE | |
| | DANDD–STAR | |
| Detroit/Wayne (DTW)..... | J53 SPA HNN WEEDA–STAR..... | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), | J81 IRQ J99 VXV J43 FLM DQN CRUXX–STAR..... | |
| Detroit (DET), | | |
| Pontiac (PTK), | | |
| Windsor (CYQG) | | |
| Willow Run (YIP) | | |
| Ann Arbor (ARB) | J81 IRQ J85 DJB LLEEO–STAR | |
| Fort Pierce (FPR) | J53 HEDLY or FPR | 1030–0300 |
| Farmingdale (FRG)..... | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE CAMRN–STAR | |
| Gainesville (GNV) | Direct | 1030–0300 |
| Hampton (HTO)..... | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 | |
| Hartford (HFD) | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD V1..... | |
| Houston Intcntl (IAH) | (DME/DME–IRU or GPS–equipped) LAL J73 SZW | |
| | J2 SJI WOLDE (RNAV)–STAR | 1000–0300 |
| | or | |
| | (Non–advanced NAV only) LAL J73 SZW J2 SJI | |
| | GILCO–STAR | 1000–0300 |
| | or | |
| | J616 SRQ Q100 LEV WOLDE (RNAV)–STAR..... | 1000–0300 |
| Houston Hobby (HOU)..... | (DME/DME–IRU or GPS–equipped) LAL J73 SZW | |
| | J2 SJI COLUMBIA (RNAV)–STAR..... | 1000–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) J616 SRQ | |
| | Q100 LEV COLUMBIA (RNAV)–STAR | 1000–0300 |
| | or | |
| | (Non–advanced NAV only) LAL J73 SZW J2 CEW | |
| | J50 AEX DAS–STAR | 1000–0300 |
| Indianapolis (IND) | LAL CTY J91 ATL J89 IIU DECEE–STAR | 1000–0300 |
| Islip (ISP)..... | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (JAX)..... | J53 | 1030–0300 |
| Kennedy (JFK)..... | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE CAMRN–STAR | 1000–0300 |
| | or | |
| | J53 CRG J51 SAV J55 CHS J121 SIE | |
| | CAMRN–STAR | 1000–0300 |
| La Guardia (LGA)..... | (Water) VALLY PERMT AR16 ILM J40 TYI HPW | |
| | J191 PXT KORRY–STAR..... | 1000–0300 |
| | or | |
| | J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT | |
| | KORRY–STAR..... | 1000–0300 |
| Lawrence (LWM) | (Water–Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM–STAR | |
| | or | |
| | (Water–Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J174 HTO ORW | |
| | GRAYM–STAR | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | 1000-0300 |
| Manchester (MHT)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN..... | |
| Melbourne (MLB) | J53 HEDLY or DRCT..... | 1030-0300 |
| Minneapolis (MSP)..... | CTY J91 ATL J89 BAE EAU-STAR | 1000-0300 |
| Montreal (CYUL)..... | VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR | |
| Nantucket (ACK) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA)..... | CTY J91 ATL GQO VOLLS-STAR | 1000-0300 |
| Newark (EWR)..... | (Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR | |
| | or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR..... | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| Newburgh (SWF)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN)..... | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED..... | |
| New London/Groton (GON) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO | |
| New Orleans (MSY) | LAL J73 SZW J2 | 1000-0300 |
| | or (Water) J616 SRQ Q100 REDFN Q105 HRV | 1000-0300 |
| Ocala (OCF)..... | J73 LAL or DRCT | 1030-0300 |
| Orlando (MCO)..... | J53 PHK GOOFY-STAR | 1030-0300 |
| | or (PHK GOOFY-STAR | |
| Overwater Routes to the Northeast | (Water-Turbojets) VALLY PERMT AR16 ILM..... | |
| | or (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| Overwater Routes to the Northwest | J616 SRQ Q100 LEV J86 | 1030-0300 |
| | or J616 SRQ Q100 REDFN Q105 HRV J58..... | 1030-0300 |
| Philadelphia (PHL)..... | J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR..... | 1000-0300 |
| | or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR | 1000-0300 |
| Pittsburgh (PIT)..... | J53 CRG J51 CAE PSK EKN IHD NESTO-STAR..... | 1000-0300 |
| Port Columbus Intl (CMH)..... | BNA IIU GAIL (RNAV)-STAR | |
| Poughkeepsie (POU)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR..... | |
| Raleigh-Durham (RDU) | (Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR | 1000-0300 |
| | or J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1000-0300 |
| St Louis (STL)..... | WINCO CTY J151 VISQA QBALL-STAR | 1000-0300 |
| | or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Sarasota/Bradenton (SRQ) | J616 | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|---|-----------------------|
| Tallahassee (TLH) | J73 | |
| | or | |
| | LAL | 1030-0300 |
| Tampa (TPA) | J43 BRDGE BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J43 DEAKK | |
| | DEAKK (RNAV)-STAR | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) VALLY PERMT AR16 ILM J109 | |
| | BUF YOUTH-STAR | |
| Vero Beach (VRB) | DRCT | 1030-0300 |
| | or | |
| | J53 HEDLY | |
| Washington Dulles (IAD) | J53 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| | or | |
| | (Water) VALLEY PERMT AR16 ILM J109 FAK | |
| | COATT-STAR | 1000-0300 |
| | or | |
| | (Water-GPS or DME/DME-IRU equipped) VALLY | |
| | PERMT AR16 ILM J109 FAK BARIN-STAR | 1000-0300 |
| Washington Natl (DCA) | (Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC | |
| | IRONS-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) VALLY PERMT AR16 ILM J40 | |
| | RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU | |
| | equipped) VALLY PERMT ILM J40 RIC OJAAY | |
| | (RNAV)-STAR | 1000-0300 |
| Westhampton (FOK) | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE V139 RICED | |
| | RICED-STAR | |
| Wilmington (ILM) | (Water-Turbojets) VALLY PERMT AR16 | |
| Windsor Locks (BDL) | (Water-Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SYB J79 JFK DPK MAD HFD | |
| MOBILE (MOB) | | |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) SJI COLUMBIA | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SJI J50 AEX DAS-STAR. | |
| Houston (IAH) | (DME/DME-IRU or GPS-equipped) SJI WOLDE | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SJI GILCO-STAR | |
| MYRTLE BEACH (MYR) | | |
| Detroit/ Wayne (DTW) | BKW GEMNI-STAR | |
| NASHVILLE | | |
| Baltimore (BWI) | J42 BKW J147 CSN OTT-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW J147 | |
| | CSN OTT-STAR | |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) MGM SZW | |
| | PRRIE (RNAV)-STAR | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|------------------------------|--|-----------------------|
| Boston (BOS)..... | J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK ORW-STAR | |
| Chicago/Midway (MDW) | (/E/G/R/J/L/Q only) IIU OKK FISSK (RNAV)-STAR..... | 0000-2359 |
| | or (non-advanced RNAV only) IIU OKK V285 CLEFT OXI CGT | 0000-2359 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO (RNAV)-STAR..... | 0000-2359 |
| | or (non-advanced RNAV only) IIU HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 0000-2359 |
| | or IIU MZZ OXI KNOX-STAR | |
| Cincinnati (CVG)..... | BWG V49 ABB V47 CVG | |
| Cleveland (CLE) | IIU ZABER-STAR..... | |
| Columbus (CMH) | LVT V493 YRK YRK035 APE168 NIKLS | |
| Denver (DEN) | FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW)..... | (RNAV only) IMPEL VHP FWA MIZAR-STAR | |
| | or CCT VHP FWA MIZAR-STAR..... | |
| Fort Lauderdale (FLL) | (all others) J39 MGM SZW J41 PIE FORTL-STAR .. | |
| Fort Myers (FMY, RSW)..... | (Turbojets-GPS or DME/DME-IRU equipped) J39 MGM J41 SZW SSCOT (RNAV)-STAR | 1100-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR | |
| | or (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR | |
| | or (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... | |
| Indianapolis (IND) | J39 IIU DECEE-STAR | |
| Kennedy (JFK) | J46 VXV SPA SPA100 J209 ORF J121 SIE CAMRN-STAR | |
| La Guardia (LGA) | J42 GVE KORRY-STAR | |
| Miami (MIA) | (all others) J39 MGM SZW J41 PIE CYY-STAR..... | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) J39 MGM SZW SSCOT (RNAV)-STAR | |
| Minneapolis (MSP) | IIU J89 BAE EAU-STAR..... | |
| Newark (EWR) | SPA J14 J51 FAK DYLIN-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR | 1100-0400 |
| Orlando (MCO, ORL) | J39 MGM SZW J43 PIE LAL | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) J39 MGM SZW J43 PIE COSTR (RNAV)-STAR..... | 1100-0400 |
| Philadelphia (PHL) | J42 OTT DPNT-STAR..... | |
| Pittsburgh (PIT) | IIU HNN WISKE-STAR | |
| St. Louis (STL) | QBALL-STAR | |
| Toronto (CYYZ)..... | J39 ROD J43 CRL J586 YXU V98 YWT V216 | |
| Washington Dulles (IAD)..... | J42 BKW ROYIL-STAR..... | |
| | or J42 BKW SHNON (RNAV)-STAR | |
| Washington Natl (DCA)..... | J42 BKW WZRRD-STAR..... | |
| | or (GPS or DME/DME-IRU equipped) J42 BKW ELDEE (RNAV)-STAR..... | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) MGM SZW WLACE (RNAV)-STAR..... | |

SE. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Windsor Locks (BDL)..... | J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR | |
| ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB) | | |
| Baltimore (BWI) | (Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| Detroit/Wayne (DTW) | JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR | |
| Fort Pierce (FPR) | VRB..... | 1030-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR..... | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR..... | 1000-0300 |
| | or (DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SZW J2 CEW J50 AEX GILCO-STAR..... | 1000-0300 |
| Key West (EYW) | RSW J41 | 1030-0300 |
| Overwater Routes to the Northeast | (Water-Turbojets) MLB LENDS AR16 ILM | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW | |
| Wilmington (ILM) | (Water-Turbojets) MLB LENDS AR16 | |
| From ORLANDO EXECUTIVE (ORL) only | | |
| Albany (ALB) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 | |
| Atlanta (ATL)..... | J53 CRG DBN SINCA-STAR..... | |
| | or (RNAV only) J53 CRG DBN CANUK RNAV-STAR..... | |
| Baltimore (BWI)..... | (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR | 1100-0400 |
| | or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| Bedford (BED)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR..... | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Beverly (BVY) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR..... | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Bridgeport (BDR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Charlotte (CLT)..... | J53 CRG J51 SAV J207 FLO CTF-STAR..... | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR | |
| Cincinnati (CVG) | (RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR..... | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| | or (all others) J53 CRG J45 ATL J43 VXV | |
| | HARDU-STAR | |
| Cleveland (CLE)..... | J53 SPA J85 TVT040 KEATN KEATN-STAR | |
| Columbus (CMH) | J53 SPA J85 HVQ HNN BREMN-STAR | |
| Dallas/Ft. Worth (DFW) | PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY . | |
| Danbury (DXR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE V139 RICED | |
| | RICED-STAR..... | |
| Denver (DEN) | CTY SZW J41 MEM RZC PER GCK J154 RYLIE | |
| | DANDD-STAR | |
| Detroit/Wayne (DTW) | VXV J91 HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Detroit (DET), Windsor (CYQG), Pontiac | | |
| (PTK), Willow Run (YIP), Ann Arbor | J53 CRG J45 ATL J91 VXV J43 FLM DQN | |
| (ARB) | CRUXX-STAR | 1100-0400 |
| | or | |
| East Hampton (HTO)..... | J53 IRQ J85 DJB LLEEO-STAR | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 HTO | |
| Farmingdale (FRG)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | |
| Hartford (HFD) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK MAD V1 | |
| Indianapolis (IND) | J53 CRG J45 ATL J89 IUU DECEE-STAR | |
| Islip (ISP) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SARDI CCC | |
| Kennedy (JFK)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | 0700-0000 |
| | or | |
| | J53 CRG J51 SAV J55 CHS J121 SIE | |
| | CAMRN-STAR | |
| La Guardia (LGA) | (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI | |
| | HPW J191 PXT KORRY-STAR | 1100-0300 |
| | or | |
| | J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT | |
| | KORRY-STAR..... | 1100-0300 |
| Lawrence (LWM) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK MAD HFD GRAYM-STAR..... | |
| | or | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | |
| Manchester (MHT)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK ALB EEN | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | 1100-0400 |
| Montreal (CYUL)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR..... | |
| Nantucket (ACK)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA) | CTY J91 ATL VOLLS-STAR | 1100-0400 |
| Newark (EWR) | (GPS or DME/DME-IRU equipped-WATER) MLB | |
| | LENDs AR16 ILM J109 FAK PHLBO | |
| | (RNAV)-STAR..... | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J207 FLO J55 J51 FAK PHLBO | |
| | (RNAV)-STAR..... | 1100-0400 |
| Newburgh (SWF)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE V139 RICED MAD193 | |
| | KEYED | |
| New London (GON) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 HTO | |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|--|-----------------------|
| Philadelphia (PHL) | (Water-Turbjets) J53 CRG J55 CHS J121 SWL SWL034 RADD5 VCN-STAR | 1100-0400 |
| Pittsburgh (PIT) | CRG J51 CAE PSK EKN IHD NESTO-STAR | 1100-0400 |
| Poughkeepsie (POU) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR | |
| Providence (PVD) | (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Springfield (CEF) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| St. Louis (STL) | CTY SZW J41 VUZ J151 VISQA QBALL-STAR | 1100-0400 |
| Toronto (CYYZ) | (Water-Turbjets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR | |
| Washington Natl (DCA) | (Water-Turbjets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STAR | |
| | or (Water-Turbjets) MLB LENDS AR16 ILM J40 RIC IRON5-STAR | |
| Washington Dulles (IAD) | (Water-GPS or DME/DME-IRU equipped) MLB LEND5 AR16 ILM J109 FAK BARLIN -STAR | |
| | or (Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR | |
| Westfield (BAF) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Westhampton Beach (FOK) | (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or (Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Windsor Locks (BDL) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| From ORLANDO INTL (MCO) only | | |
| Atlanta (ATL) | MCOY-DP AMG SINCA-STAR | 1100-0400 |
| | or (RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR | 1100-0400 |
| Baltimore (BWI) | MCOY-DP SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| | or (Water-Turbjets) MLB LENDS AR16 ILM J40 RIC OTT-STAR | |
| Bedford (BED) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Beverly (BVY) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Boston (BOS) | (Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ORW-STAR | 1100-0300 |
| | or MCOY-DP SAV J55 CHS J79 JFK ORW-STAR | 1100-0300 |
| Bridgeport (BDR) | (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Charlotte (CLT)..... | MCOY-DP SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR..... | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR..... | 1100-0400 |
| | or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1100-0400 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0400 |
| | or (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 1100-0400 |
| Cincinnati (CVG)..... | (RNAV only) MCCOY-DP AMG J45 ATL J43 VXV JAKIE (RNAV)-STAR | |
| | or (all others) MCOY-DP AMG J45 ATL J43 VXV HARDU-STAR | 1100-0400 |
| Columbus (CMH) | MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR | 1100-0400 |
| Danbury (DXR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR..... | |
| Detroit/Wayne (DTW)..... | JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Detriot (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) | JAGUAR-DP IRQ J85 DJB LLEEO-STAR | |
| Fort Myers (FMY, RSW) | LBV | |
| Hartford (HFD) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE-STAR | 1100-0400 |
| Islip (ISP) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Kennedy (JFK)..... | (Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| | or MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR .. | |
| La Guardia (LGA)..... | MCOY-DP SAV J207 RDU J55 HPW J191 PXT ENO-STAR | 1100-0300 |
| | or (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR | |
| Lawrence (LWM)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR..... | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | 1100-0400 |
| Minneapolis (MSP) | (all others) CTY VUZ ALO KASPR-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR..... | |
| Montreal (CYUL)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR..... | |
| Nantucket (ACK)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA) | CTY J91 ATL VOLLS-STAR | 1100-0400 |

SE. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective Times (UTC) |
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| Newark (EWR) | (Water-Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or MCOY-DP SAV J207 FLO J55 J51 FAK DYLIN-STAR..... or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR..... or (Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR or (GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR..... | 1100-0400 1100-0400 1100-0400 1100-0400 |
| Newburgh (SWF) | (Water-Turbojets)-MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| New London (GON) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Philadelphia (PHL) | (Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADD S VCN-STAR..... or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADD S VCN-STAR..... | 1100-0400 |
| Pittsburgh (PIT) | MCOY-DP SAV J51 CAE PSK EKN IHD NESTO-STAR..... | 1100-0400 |
| Poughkeepsie (POU) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Springfield (CEF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| St. Louis (STL) | CTY J151 VISQA QBALL-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Toronto (CYYZ)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR | |
| Washington Dulles (IAD)..... | MCOY-DP SAV J55 CHS J165 J109 FAK COATT-STAR | 1100-0300 |
| Westfield (BAF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR | |
| | or DEARY VRB TUXXI-STAR | |
| PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA) | | |
| Albany (ALB) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 | |
| Atlanta (ATL)..... | (RNAV only) ORL J81 CHESN CANUK (RNAV)-STAR..... or ORL J81 CHESN SINCA-STAR | 1100-0300 1100-0300 |
| Baltimore (BWI) | (Water-Turbojets) A699 PERMT AR16 ILM J40 RIC OTT-STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| | ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0300 |
| | or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR or (GPS or DME/DME-IRU equipped) ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0300 |
| Bedford (BED) | (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| Beverly (BVY) | (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| Boston (BOS) | (Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR | 1100-0300 |
| | or ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR | 1100-0400 |
| Bridgeport (BDR) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Charlotte (CLT) | ORL J53 CRG J51 SAV J207 FLO CTF-STAR | |
| | or (Turbojets-GPS or DME/DME IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR | 1100-0300 |
| | or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1100-0400 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0300 |
| | or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 1100-0300 |
| Cincinnati (CVG) | (All Others) CTY J91 VXV HARDU-STAR | 1100-0300 |
| | or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| Cleveland (CLE) | ORL J53 SPA J85 TVT040 KEATN KEATN-STAR | 1100-0300 |
| Columbus (CMH) | ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR | 1100-0300 |
| Cross City (CTY) | LAL | 1030-0300 |
| Dallas/Ft Worth (DFW) | SRQ Q100 REDFN Q105 HRV J58 AEX CQY | |
| Danbury (DXR) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Daytona Beach (DAB) | MLB | 1030-0300 |
| Denver (DEN) | SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | |
| | or CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW) | ORL J53 SPA HNN WEEDA-STAR | |
| Dixon (DIW) | (Water-Turbojets) WOLFO AR18 | |

| Terminals | Route | Effective Times (UTC) |
|--------------------------|---|-----------------------|
| East Hampton (HTO) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Farmingdale (FRG) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN–STAR | |
| Fort Myers (RSW) | RSW | 1030–0300 |
| Groton (GON) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Hartford (HFD) | (Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Houston (HOU) | (GPS or DME/DME–IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)–STAR | 1000–0300 |
| | or (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)–STAR | 1000–0300 |
| | or (Non–advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS–STAR | 1000–0300 |
| Houston (IAH) | (GPS or DME/DME–IRU equipped) SRQ Q100 LEV WOLDE (RNAV)–STAR | 1000–0300 |
| | or (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)–STAR | 1000–0300 |
| | or (Non–advanced NAV only) LAL J73 SZW J2 SJI GILCO–STAR | 1000–0300 |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE–STAR | 1100–0300 |
| Islip (ISP) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (JAX) | ORL J53 | 1030–0300 |
| Kennedy (JFK) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE J121 SIE CAMRN–STAR | 1100–0300 |
| | or ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN–STAR | 1000–0300 |
| La Guardia (LGA) | (Water–Turbojets) A699 PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY–STAR | |
| | or ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY–STAR | 1100–0400 |
| Lawrence (LWM) | (Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM–STAR | |
| | or (Water–ALT–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM–STAR | |
| Louisville (LOU) | CTY J91 ATL HCH DARBY–STAR | 1100–0300 |
| Manchester (MHT) | (Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU–STAR | 1100–0300 |
| Montreal (CYUL) | (Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT–STAR | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS–STAR | 1100–0300 |
| Nantucket (ACK) | (Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO V46 | |
| Newark (EWR) | (Water–GPS or DME/DME–IRU equipped) A699 PERMT AR16 ILM J109 FAK PHLBO (RNAV)–STAR | |
| | or ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN–STAR | 1100–0300 |
| | or (WATER) A699 PERMT AR16 ILM J109 FAK DYLIN–STAR | |
| | or | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| | (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Newburgh (SWF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Ocala (OCF) | LAL | 1030-0300 |
| Orlando (MCO) | BAIRN GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast | (Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW | 1030-0300 |
| Philadelphia (PHL) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR | |
| | or | |
| | ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDS VCN-STAR..... | 1100-0300 |
| Pittsburgh (PIT) | ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | |
| Poughkeepsie (POU) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Raleigh/Durham (RDU) | (Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR | |
| | or | |
| | ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1100-0400 |
| St. Louis (STL) | TBIRD CTY J151 VISQA QBALL-STAR | |
| | or | |
| | (/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Springfield (CEF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Tallahassee (TLH) | LAL | 1030-0300 |
| Tampa (TPA) | LBV BRDGE-STAR | 1030-0300 |
| | or | |
| | BRDGE BRDGE-STAR..... | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR..... | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR..... | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH-STAR | |
| Washington Dulles (IAD) | (Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR | |
| | or | |
| | (Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR | |
| | or | |
| | ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR | |
| Washington Natl (DCA) | (Water) A699 PERMT AR16 ILM J40 RIC IRONS-STAR | |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR | |
| Westfield (BAF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |

SE. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|--|-----------------------|
| Westhampton Beach (FOK) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or (Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Wilmington (ILM) | (Water-Turbojets) A699 PERMT AR16 | |
| Windsor Locks (BDL) | (Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| PENSACOLA (PNS) | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SJI AEX DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) ROMMY HRV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SJI GILCO AEX DAS-STAR | 1000-0300 |
| PORT AU PRINCE (MTPP) | | |
| Atlanta (ATL) | (if unable FL370 by CVIKK) J0SES A315 ZIN FLL ORL CRG SINCA-STAR | |
| | or ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR | |
| | or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR | |
| | or (if unable FL370 by CVIKK) J0SES A315 ZIN FLL ORL CRG CANUK (RNAV)-STAR | |
| Kennedy (JFK) | B0TES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN | |
| | or B0TES G444 GTK M594 CERDA L453 AZEJU BERGH L454 OWENZ CAMRN | |
| | or B0TES G444 GTK L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR | |
| | or J0SES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Newark (EWR) | ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO | |
| | or ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR | |
| | or ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR | |
| RALEIGH-DURHAM (RDU) | | |
| Albany (ALB) | TYI J79 SBY J79 JOANI LGA LGA055 V487 V130.. | 1100-0400 |
| Atlanta (ATL) | PACKK-DP AZELL CAE J4 IRQ SINCA-STAR | 1100-0400 |
| | or | |

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PREFERRED IFR ROUTES

| Terminals | Route | Effective Times (UTC) |
|-----------------------------|---|-----------------------|
| | (RNAV only) PACKK–DP AZELL CAE J4 IRQ CANUK RNAV–STAR | 1100–0400 |
| Boston (BOS) | TYI J79 JFK ORW–STAR | |
| Chicago Midway (MDW) | PACKK–DP AZELL PSK HVQ FWA GOSHEN–STAR .. | 1100–0400 |
| Chicago O’Hare (ORD) | (/E/G/R/J/L/Q only) PACKK–DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)–STAR | 1100–0400 |
| | or | |
| | (non–advanced RNAV only) PACKK–DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX–STAR . | 1100–0400 |
| Cincinnati (CVG) | (RNAV only) HMV JAKIE (RNAV)–STAR | |
| | or | |
| | (all others) HMV HARDU–STAR | |
| Columbia (CAE) | FAY–DP FAY FLO | 1100–0400 |
| Dallas/Ft Worth (DFW) | PACKK–DP AZELL SPA J14 VUZ J52 SQS CQY | 1100–0400 |
| Detroit/Wayne (DTW) | AZELL PSK BKW GEMNI–STAR | |
| Fort Lauderdale (FLL) | (Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CHS J79 OMN FISEL (RNAV)–STAR | |
| | or | |
| | (Water–Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CLB BAHAA AR21 CRANS FISEL (RNAV)–STAR | |
| | or | |
| | (Turbojets) TARL–DP CHS J79 OMN GISSH–STAR . | |
| | or | |
| | (Water–Turbojets) TARL–DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH–STAR | |
| | or | |
| | (Turboprops) TARL–DP CHS J79 OMN MLB BLUFI–STAR | |
| | or | |
| | (Water–Turboprops–GPS or DME/DME–IRU equipped) TARL–DP CLB BAHAA AR21 CRANS FISEL (RNAV)–STAR | |
| | or | |
| | (Water–Turboprops) TARL–DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH–STAR | |
| Houston (HOU) | (GPS or DME/DME–IRU equipped) VUZ JAN AEX ROKIT (RNAV)–STAR | |
| | or | |
| | (Non–advanced NAV only) VUZ JAN AEX DAS–STAR | |
| Houston (IAH) | (Turbojets–GPS or DME/DME–IRU equipped) VUZ JAN AEX TXMEX (RNAV)–STAR | |
| | or | |
| | (Non–advanced NAV only) VUZ JAN AEX DAS–STAR | |
| Kennedy (JFK) | TYI ORF J121 SIE CAMRN–STAR | 1100–0400 |
| La Guardia (LGA) | LVL HPW J191 PXT KORRY–STAR | |
| Miami (MIA) | (Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CHS J79 OMN HILEY (RNAV)–STAR | |
| | or | |
| | (Water–Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CLB SEELO AR22 JORAY HILEY (RNAV)–STAR | |
| | or | |
| | (Turbojets) TARL–DP CHS J79 OMN ANNEY–STAR . | |
| | or | |
| | (Water–Turbojets) TARL–DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSSY MILSY BOYUR HILEY KAINS | |
| | or | |
| | (Turboprops) TARL–DP CHS J79 OMN ANNEY–STAR | |
| Newark (EWR) | LVL FAK DYLIN–STAR | 1100–0300 |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|---------------------------|---|-----------------------|
| | (GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Newburgh (SWF) | TYI J79 JFK BDR V91 STUBY | 1100-0300 |
| Orlando (MCO) | (Turbojets) TARL-DP CHS J79 OMN BITHO-STAR.. or (GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR | 1100-0400 |
| Orlando (ORL) | (Turbojets) TARL-DP CHS J79 OMN CORLL-STAR . | 1100-0400 |
| Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR... or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR .. or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR..... or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL | 1100-0400 |
| Philadelphia (PHL) | V3 FAK DPNT-STAR | 1100-0400 |
| Pittsburgh (PIT) | PACK-DP ROA EKN IHD NESTO-STAR | 1100-0400 |
| Sarasota (SRQ) | FAY-DP FAY CAE J75 TAY J85 GNV LAL | 1100-0400 |
| Savannah (SAV) | TARL-DP CHS | 1100-0400 |
| Tampa (TPA) | FAY-DP FAY CAE J75 TAY LZARD-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR | 1100-0400 |
| Windsor Locks (BDL) | TYI J79 SBY J79 JFK DPK-STAR | 1100-0400 |
| SAN JUAN (TJSJ) | | |
| Atlanta (ATL) | HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR..... or HARDE A555 ZQA FLL ORL CRG SINCA-STAR..... or CONCH R507..... | |
| Atlantic City (ACY) | ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE | |
| Baltimore (BWI) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR | |
| | or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR..... or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR | |
| | or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR | |
| Bedford (BED)..... | ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR | |
| | or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR | |
| | or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Charlotte (CLT) | ELMUC L451 OLDEY CHS CHESTERFIELD-STAR... or ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR.... | |

| Terminals | Route | Effective Times (UTC) |
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| Cincinnati (CVG) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)–STAR | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)–STAR | |
| Cleveland (CLE) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN–STAR | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN–STAR | |
| Dayton (DAY) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE–STAR | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE–STAR | |
| Detroit (DTW)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA–STAR | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS SPA HNN WEEDA–STAR | |
| Indianapolis (IND) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE–STAR..... | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE–STAR | |
| Kennedy (JFK)..... | ELMUC L454 LUCTI L454 OWENZ CAMRN | |
| | or | |
| | ELMUC L453 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN..... | |
| | or | |
| | ELMUC L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN–STAR | |
| Louisville (SDF)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY–STAR | |
| | or | |
| | ELMUC L451 OLDEY METTA CHS SPA HCH DARBY–STAR | |
| Newark (EWR)..... | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN–STAR | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR | |
| | or | |
| | ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO..... | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO | |
| Ottawa (CYOW) | ELMUC L454 LUCTI L454 JFK SYR J599 | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK SYR J599 | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM SYR J599 | |
| Providence (PVD) | ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO JORDN | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| Quebec (CYQB) | ELMUC L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN | |
| | ELMUC L454 LUCTI L454 JFK PLB J560 | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560 | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560..... | |
| | or | |
| | ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 | |
| Raleigh-Durham (RDU) | ELMUC L451 OLDEY ILM BRADE-STAR | |
| Teterboro (TEB)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ | |
| | or | |
| | ELMUC L454 LUCTI L454 OWENZ..... | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR | |
| Washington (DCA) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR..... | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR | |
| Washington (IAD) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT-STAR | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR | |
| | or | |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR | |
| White Plains (HPN) | ELMUC L454 LUCTI L454 OWENZ..... | |
| | or | |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR | |
| | or | |
| | ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO-STAR | |
| Winsor Locks (BDL) | ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR | |
| | or | |
| | ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR..... | |
| | or | |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DEER PARK-STAR | |
| Winnipeg (CYWG) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| SANTO DOMINGO SPECIAL AREA (MDSD, MDPC, MDLR, MDST, MDPP, MDJB, MDCT) | ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP..... | |
| | [ATTENTION: Routes over JUELE fix are for aircraft that are not HF equipped, not deep over water equipped or do not want to file deep oceanic routes. Also, for aircraft with destinations to Florida airports please see Special High Altitude Directional Routes.] | |
| Altantic City (ACY) | BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J121 SIE | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J121 SIE | |
| | or | |
| | (Non-HF equipped) JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J121 SIE..... | |
| Baltimore (BWI) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR..... | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR..... | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR | |
| Bangor (BGR)..... | BESAS L464 CERDA LUCTI L454 BERGH HTO LRV J79 | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LRV J79..... | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LRV | |
| Bedford (BED)..... | BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR..... | |
| Boston (BOS) | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR..... | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR | |
| Charlotte (CLT) | BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY CHS CHESTERFIELD-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY CHS HUSTN (RNAV)-STAR | |
| Chicago O'Hare (ORD) | JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV FLM J24 BIGXX ROYKO (RNAV)-STAR | |
| Cincinnati (CVG) | BESAS L464 CERDA L451 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN JAVIT-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR | |
| Cleveland (CLE) | BESAS L464 CERDA L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR | |
| Dayton (DAY) | BESAS L464 CERDA L451 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR | |
| Detroit (DTW) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS SPA HNN WEEDA-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HNN WEEDA-STAR | |
| Indianapolis (IND) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR . | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR | |
| Kennedy (JFK) | BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN | |

| Terminals | Route | Effective Times (UTC) |
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| | or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR | |
| | or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN . | |
| | or BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| | or JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| La Guardia (LGA)..... | BESAS L464 LAMER L453 AZEJU BERGH L454 OWENZ CAMRN..... | |
| | or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HPW J191 PXT KORRY-STAR | |
| | or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN . | |
| | or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR | |
| | or JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR..... | |
| Louisville (SDF)..... | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR | |
| | or BESAS L464 CERDA L451 OLDEY METTA CHS SPA HCH DARBY-STAR | |
| | or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HCH DARBY-STAR | |
| Montreal (CYMX), (CYUL)..... | BESAS L464 LAMER L453 AZEJU BERGH L454 JFK J37 ALB J6 PLB PLATTSBURGH-STAR | |
| | or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR .. | |
| Morristown (MMU)..... | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR | |
| | or BESAS L464 LAMER L453 AZEJU BERGH L454 OWENZ | |
| | or BESAS L464 CERDA LUCTI L454 OWENZ | |
| | or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR | |
| | or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR | |
| Newark (EWR)..... | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK DYLIN-STAR | |
| | or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR | |
| | or BESAS L464 LAMER L453 AZEJU BERGH L454 OWENZ CYN GXU RBV V249 METRO | |
| | or BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO | |
| | or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR..... | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|----------------------------|---|-----------------------|
| Ottawa (CYOW) | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR | |
| | BESAS L464 CERDA LUCTI L454 JFK SYR J599 ... | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599 | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 | |
| Philadelphia (PHL) | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599 | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM SYR J599 | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE–STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDs CEDAR LAKE–STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU B24 SIE | |
| | BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN | |
| Providence (PVD) | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN | |
| | or | |
| | JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN | |
| | BESAS L464 CERDA LUCTI L454 JFK PLB J560.... | |
| | or | |
| Quebec (CYQB) | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560 | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560..... | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 | |
| | or | |
| | JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 | |
| | BESAS L464 CERDA L451 OLDEY ILM BRADE–STAR | |
| | or | |
| | JUELE L463 NUCAR ILM BRADE–STAR | |
| Raleigh/Durham (RDU) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)–STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN–STAR | |
| | or | |
| Teterboro (TEB) | JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR | |
| | BESAS L464 CERDA LUCTI L454 JFK SYR J599 ... | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599 | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM SYR J599 | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE–STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| Toronto (CYYZ) | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)–STAR | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J63 HUO CFB J95 BUF YOUTH (RNAV)–STAR | |
| Washington (DCA) | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 BUF YOUTH (RNAV)–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)–STAR | |
| Washington (IAD) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS–STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)–STAR | |
| | or | |
| White Plains (HPN) | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC IRONS–STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)–STAR | |
| | or | |
| Windsor Locks (BDL) | JUELE L463 NUCAR AR3 CLB ILM J40 RIC IRONS–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)–STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA ECG FAK BARIN (RNAV)–STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA ECG FAK COATT–STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)–STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK COATT–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK BARIN (RNAV)–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK COATT–STAR | |
| | BESAS L464 CERDA L451 OLDEY ECG ORF J121 SIE BOUNO–STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE BOUNO–STAR | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO–STAR | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK–STAR | |
| | or | |
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| Terminals | Route | Effective Times (UTC) |
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| Winnipeg (CYWG) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP | |
| SARASOTA-BRADENTON AREA (SRQ) | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP | |
| | | |
| | | |
| | | |
| | | |
| Baltimore (BWI)..... | TAY J75 CAE J52 RIC OTT-STAR..... | 1100-0300 |
| Charlotte (CLT)..... | or | 1100-0300 |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR | |
| | TAY J85 IRQ UNARM-STAR | |
| Chicago Midway (MDW) | or | 1100-0300 |
| | (Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR | |
| | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR..... | |
| Chicago O'Hare (ORD)..... | or | 1100-0300 |
| | (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | |
| | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| Cincinnati (CVG) | or | 0000-2359 |
| | (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | |
| | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| Cleveland (CLE)..... | or | |
| | (all others) CTY J91 VXV HARDU-STAR..... | |
| | PIE J119 TAY J85 TVT040 KEATN KEATN-STAR.... | |
| Columbus (CMH) | PIE J119 TAY J85 HVQ HNN BREMN-STAR | |
| Dallas/Ft. Worth (DFW) | (Water) SRQ Q100 REDFN Q105 HRV J58 AEX CQY..... | |
| Denver (DEN) | (Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | |
| Detroit/Wayne (DTW) | PIE TAY J85 SPA HNN WEEDA-STAR | |
| Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Willow Run (YIP)..... | | |
| Young (DET)..... | PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN CRUX-STAR | 1030-0300 |
| | PIE J119 TAY J85 DJB LLEE0-STAR..... | |
| | (all others) RSW FORTL-STAR | |
| Houston (HOU) | or | |
| | (GPS or DME/DME-IRU equipped) RSW FORTL JINGL (RNAV)-STAR | |
| | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR..... | |
| Houston (IAH) | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR..... | |
| | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR..... | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)–STAR | |
| | or | |
| | (Non-advanced NAV only) SZW J2 SJI GILCO–STAR | 1000–0300 |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE–STAR | |
| La Guardia (LGA) | TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY–STAR | |
| Louisville (LOU, SDF) | CTY J91 ATL HCH DARBY–STAR | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU–STAR | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS–STAR | 1100–0300 |
| Newark (EWR) | TAY J75 CAE J51 FAK DYLIN–STAR | 1100–0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)–STAR | 1100–0300 |
| Philadelphia (PHL) | TAY J75 CAE J51 FAK DPNT–STAR | |
| Pittsburgh (PIT) | TAY J75 CAE PSK J53 EKN IHD NESTO–STAR | |
| Windsor Locks (BDL) | TAY J75 DUNKN J210 J79 JFK DPK DPK–STAR | 0700–0000 |
| SAVANNAH (SAV) | | |
| Baltimore (BWI) | CHS J79 TYI J40 RIC OTT–STAR | 1100–0400 |
| Philadelphia (PHL) | CHS J121 SWL SWL SWL034 RADDS VCN–STAR .. | 1100–0400 |
| Washington Dulles (IAD) | J207 RDU FAK COATT–STAR or | |
| | (GPS or DME/DME-IRU equipped) J207 RDU FAK BARIN–STAR | |
| TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF) | | |
| Atlanta (ATL) | SZW LGC–STAR | |
| | or | |
| | (RNAV only) SZW HONIE (RNAV)–STAR | |
| Baltimore (BWI) | TAY J75 CAE J52 RIC OTT–STAR | 1100–0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)–STAR | 1100–0400 |
| Boston (BOS) | TAY J75 DUNKN J210 J79 JFK ORW–STAR | 1100–0400 |
| Charlotte (CLT) | TAY J85 IRQ UNARM–STAR | |
| | or | |
| | (Turbojets–GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)–STAR | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)–STAR | 1100–0300 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1100–0300 |
| Chicago O’Hare (ORD) | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)–STAR | 0000–2359 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX–STAR | 0000–2359 |
| Cincinnati (CVG) | (All Others) CTY J91 VXV HARDU–STAR | |
| | or | |
| | (RNAV only) CTY J91 VXV JAKIE (RNAV)–STAR | |
| Cleveland Metro (CLE) | PIE J119 TAY J85 TVT040 KEATN KEATN–STAR ... | |
| | or | |
| | CTY J91 HNN TVT KEATN–STAR | |
| Columbus (CMH) | PIE J119 TAY J85 HVQ HNN BREMN–STAR | |
| | or | |
| | CTY J91 HNN BREMN–STAR | |
| Denver (DEN) | SZW J41 MEM RZC PER GCK J154 RYLIE DANDD–STAR | |
| Detroit/Wayne (DTW) | TAY J85 SPA HNN WEEDA–STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Pontiac (PTK), Young (DET) | CTY J91 VXV J43 FLM DQN CRUXX–STAR | |
| Willow Run (YIP) | CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Windsor (CYQG) | PIE J119 TAY J85 DJB LLEE0-STAR | |
| Fort Lauderdale: | | |
| Hollywood Intl (FLL), Executive (FXE), Pompano Beach (PMP), North Perry (HWO), Opa Locka (OPF) | (all others) RSW FORTL-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SABEE RXNAN JINGL (RNAV)-STAR | |
| Fort Myers (RSW), (FMY) | (Turbojets-GPS or DME/DME-IRU equipped) SRQ TYNEE (RNAV)-STAR | |
| Fort Pierce (FPR) | VRB | 1030-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) SZW J2 SJI GILCO-STAR | 1000-0300 |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE-STAR | |
| Kennedy (JFK) | TAY J75 J210 J121 SIE CAMRN-STAR | |
| Key West (EYW) | RSW J41 | 1030-0300 |
| La Guardia (LGA) | TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY-STAR | 1100-0400 |
| Louisville (SDF) | CTY J91 ATL HCH DARBY-STAR | |
| Miami (MIA) | (all others) RSW CYY CYY-STAR | 1030-0300 |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS-STAR | |
| Newark (EWR) | TAY J75 CAE J51 FAK DYLIN-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)-STAR | 1100-0400 |
| Philadelphia (PHL) | TAY J75 CAE J51 FAK DPNT-STAR | 1100-0400 |
| Pittsburgh (PIT) | TAY J75 CAE PSK EKN IHD NESTO-STAR | |
| Raleigh-Durham (RDU) | TAY J75 CAE BUZZY-STAR | |
| Washington Dulles (IAD) | TAY J75 CAE J51 FAK COATT-STAR | 1100-0400 |
| Washington Natl (DCA) | TAY J75 CAE J52 RIC IRONS-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC OJAAY (RNAV)-STAR | 1100-0400 |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) SABEE JOO0E WLACE (RNAV)-STAR | |
| Windsor Locks (BDL) | TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR | 0700-0000 |
| From St Petersburg (PIE) only: | | |
| Detroit/Wayne (DTW) | TAY J85 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Pontiac (PTK) Willow Run (YIP) | CTY J91 VXV J43 FLM DQN CRUXX-STAR | |
| Windsor (CYQG), Young (DET) | PIE J119 TAY J85 DJB LLEE0-STAR | |

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES
FOR ATLANTA HARTSFIELD INTL ARPT
(JETS AND TURBOPROPS)

NORTHEAST

Traffic originating North and East of J186 to North of a line from ATL to RDU file:

| | |
|-------|----------------------------------|
| ..... | MOL WHINZ-STAR |
| | or |
| ..... | MOL FLCON (RNAV)-STAR |
| ..... | J145 ODF WHINZ-STAR |
| | or |
| ..... | J145 ODF FLCON (RNAV)-STAR |
| ..... | VXV WHINZ-STAR |
| | or |
| ..... | VXV FLCON (RNAV)-STAR |
| ..... | J186 ODF WHINZ-STAR |
| | or |
| ..... | J186 ODF FLCON (RNAV)-STAR |
| ..... | SPA ODF WHINZ-STAR |
| | or |
| | SPA ODF FLCON (RNAV)-STAR |

SOUTHEAST

Traffic originating South of a line from ATL to RDU, to East of J89 file:

| | |
|-------|-----------------------------|
| ..... | IRQ SINCA-STAR |
| | or |
| | IRQ CANUK (RNAV)-STAR |
| ..... | DBN SINCA-STAR |
| | or |
| | DBN CANUK (RNAV)-STAR |

SOUTHWEST

Traffic originating West of J89 to South and West of J14 file:

| | |
|-------|-----------------------------|
| ..... | MEI LGC-STAR |
| | or |
| | MEI HONIE (RNAV)-STAR |
| ..... | SZW LGC-STAR |
| | or |
| | SZW HONIE (RNAV)-STAR |
| ..... | MGM LGC-STAR |
| | or |
| | MGM HONIE (RNAV)-STAR |

NORTHWEST

Traffic originating West and North of J43 to North of J14 file:

| | |
|-------|-----------------------------|
| ..... | BWG RMG-STAR |
| | or |
| | BWG ERLIN (RNAV)-STAR |
| ..... | BNA RMG-STAR |
| | or |
| | BNA ERLIN (RNAV)-STAR |
| ..... | MEM RMG-STAR |
| | or |
| | MEM ERLIN (RNAV-STAR) |

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA AIRPORTS (SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)

NORTHEAST

Traffic originating North and East of a line from ATL to VXV to North of a line from ATL to RDU file:

| | |
|-------|---------------------------|
| ..... | J48 ODF AWSON-STAR |
| ..... | J145 ODF AWSON-STAR |
| ..... | VXV AWSON-STAR |
| ..... | J186 ODF AWSON-STAR |
| ..... | SPA ODF AWSON-STAR |

SOUTHEAST

Traffic originating South of a line from ATL to RDU, to East of J89 file:

| | |
|-------|----------------------|
| ..... | IRQ TRBOW-STAR |
| ..... | DBN TRBOW-STAR |

SOUTHWEST

Traffic originating West of J89 to South and West of J14 file:

| | |
|-------|--------------------------|
| ..... | MEI LGC DIFFI-STAR |
| ..... | SZW LGC DIFFI-STAR |
| ..... | MGM LGC DIFFI-STAR |

NORTHWEST

Traffic originating West and North of a line from ATL to VXV to North of J14 file:

| | |
|-------|----------------------|
| ..... | GQO BUNNI-STAR |
| ..... | RQZ BUNNI-STAR |

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR CHARLOTTE TERMINAL AREA

NORTHEAST

Traffic originating North and East of J53 to North of a line from CLT to RDU file:

| | |
|-------|-----------------------------|
| ..... | LYH MAJIC-STAR |
| ..... | RDU SUDSY (RNAV)-STAR |
| ..... | ROA MAJIC-STAR |

SOUTHEAST

Traffic originating South of a line from CLT to RDU to South and East of J51 file:

| | |
|-------|-----------------------------|
| ..... | FLO CTF-STAR |
| ..... | FLO HUSTN (RNAV)-STAR |

SOUTHWEST

Traffic originating West of J51 to South of J118 file:

| | |
|-------|-----------------------------|
| ..... | ATL ADENA (RNAV)-STAR |
| ..... | ATL UNARM-STAR |
| ..... | IRQ ADENA (RNAV)-STAR |
| ..... | IRQ UNARM-STAR |

NORTHWEST

Traffic originating West of J53 to North of J118 file:

| | |
|-------|----------------------|
| ..... | VXV SHINE-STAR |
| ..... | HMV SHINE-STAR |

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

NORTHEAST

Traffic entering Memphis ARTCC north of J118:

| | |
|--|-----------------------|
| | BNA WILDER-STAR |
| | BWG WILDER-STAR |
| | PXV WILDER-STAR |

NORTHWEST

Traffic entering Memphis ARTCC on or west of J35:

| | | |
|--|------------------------|-----------|
| | FAM GQE-STAR | |
| | ARG GQE-STAR | |
| | SGF ARG GQE-STAR | |
| | RZC GQE-STAR | |
| | FSM GQE-STAR | 1100-0200 |

SOUTHEAST

Traffic entering Memphis ARTCC south of J118:

| | | |
|--|------------------------------------|-----------|
| | VUZ HLI-STAR (MONDAY-FRIDAY) | |
| | GQO HLI-STAR | 1100-0200 |

SOUTHWEST

Traffic entering Memphis ARTCC on or south of J6:

| | | |
|--|------------------------|-----------|
| | LIT MARVELL-STAR | |
| | TXK MARVELL-STAR | |
| | ELD MARVELL-STAR | |
| | SQS MARVELL-STAR | 1100-0200 |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Traffic entering Miami Center (ZMA) for northbound Caribbean flights originating from Santo Domingo UIR (MDCS) to: FLL | Caribbean flights originating from Santo Domingo UIR (MDCS) to: (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)-STAR | |
| | or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR | |
| | or | |
| (Advanced RNAV equipped) RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR | RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL-STAR | |
| | (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA FLIPR (RNAV)-STAR | |
| | or JUELE L463 BTLER A555 ZQA FOWEE -STAR | |
| | or | |
| | (Advanced RNAV equipped) RETAK A636 ZIN A315 HODGY FLIPR(RNAV)- STAR | |
| | or | |
| | RETAK A636 ZIN A315 HODGY FOWEE-STAR JUELE L463 BTLER A555 ZQA 054V PBI | |
| | or | |
| PBI | RETAK A636 ZIN A315 HODGY ZQA 054V | |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Traffic overflying Atlanta Center originating north and east of a line from TYS to LAL (except DAY and CVG) for ZTL to MCO: | | |
| ..... | PSK CAE SAV OMN BITHO-STAR | 1100-0400 |
| ..... | or | |
| ..... | J83 SPA CAE SAV OMN BITHO-STAR..... | 1100-0400 |
| ..... | or | |
| ..... | (GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR | 1100-0400 |
| ..... | or | |
| ..... | (GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR | 1100-0400 |
| Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK: | | |
| BDL..... | GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR..... | |
| BOS | (Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR | |
| ..... | or | |
| ..... | (Turboprop only) SIE J121 HTO V308 ORW V16 WOONS | |
| BWI | SPA J14 RIC OTT-STAR | |
| ..... | or | |
| ..... | (GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR | |
| DCA..... | SPA J14 RIC IRONS-STAR | |
| ..... | or | |
| ..... | (GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR | |
| EWB | SPA J14 J15 FAK DYLIN-STAR | |
| ..... | or | |
| ..... | (GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR | |
| IAD | SPA J14 J51 FAK COATT-STARR..... | |
| JFK..... | GRD J209 ORF J121 SIE CAMRN-STAR..... | |
| LGA | AHN J208 HPW J191 PXT KORRY-STAR | |
| PHL..... | SPA J14 J51 FAK DPNT-STAR | |
| Northbound from over VXV with destination of CMH: | VXV J91 HNN BREMN-STAR..... | |
| Traffic overflying Atlanta Center Northbound from over SPA to CMH: | SPA J85 HVQ HNN BREMN-STAR | |
| Traffic overflying Atlanta Center Northbound from over PSK to CMH: | PSK HVQ HNN BREMN-STAR..... | |
| Traffic overflying Atlanta Center Southbound originating North and East of line from VXV to LAL (except DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI, RSW, SRQ and TPA file: | PSK CAE..... | 1100-0300 |
| ..... | or | |
| ..... | J83 SPA J85 AMG..... | 1100-0300 |
| Traffic overflying Atlanta Center Southbound originating North and East of a line from VXV to LAL (with DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI and RSW file: | | |
| ..... | VXV J91 ATL OTK | 1100-0300 |
| ..... | or | |
| ..... | BNA J73 SZW..... | 1100-0300 |
| ..... | or | |
| ..... | MGM J20 SZW | 1100-0300 |
| ..... | or | |
| ..... | BNA J73 SZW..... | 1100-0300 |
| ..... | or | |
| ..... | MGM J20 SZW | 1100-0300 |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Traffic originating South of Wilmington VORTAC (ILM): | | |
| EWR | ILM J109 FAK DYLIN-STAR..... | 1100-0300 |
| | or | |
| | (GPS or DME/DME.IRU equipped) ILM J109 | |
| FRG | FAK PHLBO (RNAV)-STAR | 1100-0300 |
| | (Water-Turbojets) WOLFO AR18 DIW WETRO | |
| JFK..... | CEBEE SWL J121 SIE CAMRN-STAR | |
| | (Water-Turbojets) WOLFO AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | 1100-0300 |
| LGA | ILM TYI HPW J191 PXT KORRY-STAR | 1100-0300 |
| Traffic overflying Ormond Beach VORTAC (OMN) destined MIA: | | |
| OMN..... | OMN J79 VRB HEATT-STAR | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to La Romana (MDLR) and Nagua (MDCY): | | |
| ZMA | LETON L450 GTK ASIVO | |
| | or | |
| | LNHOM L452 GTK ASIVO..... | |
| | or | |
| | LAMER L464 CERDA L453 ASIVO | |
| | or | |
| | MLLER M594 CERDA L459 ASIVO | |
| | or | |
| | NUCAR L463 RNDLY ASIVO | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Puerto Plata (MDPP): | | |
| ZMA | LETON L450 SEKAR A554 PTA..... | |
| | or | |
| | LNHOM L452 GTK A554 PTA | |
| | or | |
| | LAMER L453 MACKI B891 PTA | |
| | or | |
| | LUCTI L454 MNDEZ M594 CERDA L453 | |
| | MACKI B891 PTA | |
| | or | |
| | MLLER M594 CERDA L453 MACKI B891 | |
| | PTA | |
| | or | |
| | NUCAR L463 RNDLY SEKAR A554 PTA..... | |
| | or | |
| | WATRS M596 PTA | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Santo Domingo (MDSO): | | |
| ZMA | LETON L450 SEKAR A554 CDO | |
| | or | |
| | LNHOM L452 GTK L450 SEKAR A554 CDO... | |
| | or | |
| | LAMER L453 ASIVO CDO | |
| | or | |
| | LUCTI L454 MNDEZ M594 CERDA L453 | |
| | ASIVO CDO | |
| | or | |
| | MLLER M594 CERDA L453 ASIVO CDO | |
| | or | |
| | NUCAR L463 RNDLY SEKAR A554 CDO | |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|---|---|-----------------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Port au Prince (MTPP): | | |
| ZMA | LETON L450 GTK G444 OBN | |
| | or | |
| | LNHOM L452 GTK G444 OBN | |
| | or | |
| | LAMER L464 CERDA M594 GTK G444 OBN . | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Johns Island (TAPA): | | |
| ZMA | LETON L451 ELMUC L451 ANU | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L451 | |
| | ANU | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L451 ANU | |
| | | |
| | or | |
| | LUCTI L454 ELMUC L451 ANU | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Bridgetown (TBPB): | | |
| ZMA | LETON L451 ELMUC L454 ILURI A555 BGI ... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | ILURI A555 BGI | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | ILURI A555 BGI | |
| | or | |
| | LUCTI L454 ELMUC L454 ILURI A555 BGI | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Fort de France (TFFF): | | |
| ZMA | LETON L451 ELMUC L454 ILURI A555 FOF... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | ILURI A555 FOF | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | ILURI A555 FOF | |
| | or | |
| | LUCTI L454 ELMUC L454 ILURI A555 FOF.... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Grand Case (TFFG) and Saint Barthelemy (TFFJ) and Oranjestad-Roosevelt (TNCE) and Sanit Maarten (TNCM) and The Valley (TQPF): | | |
| ZMA | LETON L451 ELMUC L451 PJM | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L451 PJM | |
| | | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L451 PJM | |
| | | |
| | or | |
| | LUCTI L454 ELMUC L451 PJM | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Point a Pitre (TFFR): | | |
| ZMA | LETON L451 ELMUC L454 LEEEO MODUX | |
| | R888 PPR | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | LEEEO MODUX R888 PPR | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | LEEEO MODUX R888 PPR | |
| | or | |
| | LUCTI L454 ELMUC L454 LEEEO MODUX | |
| | R888 PPR | |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin (TIST): | | |
| ZMA | LETON L451 ELMUC L454 PANMO JETSS | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | PANMO JETSS | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | PANMO JETSS | |
| | or | |
| | LUCTI L454 ELMUC L454 PANMO JETSS | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin (TISX): | | |
| ZMA | LETON L451 ELMUC L454 PANMO COY | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | PANMO COY | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | PANMO COY | |
| | or | |
| | LUCTI L454 ELMUC L454 PANMO COY | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ): | | |
| ZMA | LETON L451 ELMUC BQN | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC BQN | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC BQN | |
| | or | |
| | LUCTI L454 ELMUC BQN | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG): | | |
| ZMA | LETON L451 ELMUC IDAHO BEANO | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC IDAHO | |
| | BEANO | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC IDAHO | |
| | BEANO | |
| | or | |
| | LUCTI L454 ELMUC IDAHO BEANO | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ): | | |
| ZMA | LETON L451 ELMUC MAZ | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC MAZ | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC MAZ | |
| | or | |
| | LUCTI L454 ELMUC MAZ | |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|---|--|-----------------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Ponce (TJPS): | | |
| ZMA | LETON L451 ELMUC PSE..... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC PSE | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC PSE | |
| | or | |
| | LUCTI L454 ELMUC PSE..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJSJ): | | |
| ZMA | LETON L451 ELMUC IDAHO R006 | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC IDAHO R006 | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC IDAHO R006 | |
| | or | |
| | LUCTI L454 ELMUC IDAHO R006..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Golden Rock (TKPK) and Charlestown (TKPN): | | |
| ZMA | LETON L451 ELMUC L454 LEEEO DANDE G633 SKB..... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 LEEEO DANDE G633 SKB | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 LEEEO DANDE G633 SKB | |
| | or | |
| | LUCTI L454 ELMUC L454 LEEEO DANDE G633 SKB..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Crown Point (TTCP) and Port of Spain (TTPP): | | |
| ZMA | LETON L451 ELMUC G431 DDP G449 POS... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS | |
| | or | |
| | LUCTI L454 ELMUC G431 DDP G449 POS.... | |
| | or | |
| | GTK L452 ANADA G449 POS | |

HIGH ALTITUDE—SINGLE DIRECTION ROUTES

| Airway | Segment Fixes | Direction Effective | Effective Times (UTC) |
|---------------|--|--------------------------------|--------------------------------------|
| J14 | Greensboro, NC to Richmond, VA | Northeast | 1100-0300 |
| J37 | Coyle, NJ to Spartanburg, SC | Southwest | 1100-0300 |
| J40 | Wilmington, NC to Richmond, VA | North | 1100-0300 |
| J48 | Pottstown, PA to Foothills, GA | Southwest | 1100-0300 |
| J51 | Columbia, SC to Yardley, NJ | Northeast | 1100-0300 |
| J52 | Columbia, SC to Richmond, VA | Northeast | 1100-0300 |
| J55 | Florence, SC to HUBBS Int., VA | Northeast | 1100-0300 |
| J75 | Modena, PA to Greensboro, NC | Southwest | 1100-0300 |
| J89 | Atlanta, GA to HITTR Int, FL | South | 1100-0300 |
| J91 | Cross City, FL to Atlanta, GA | North | 1100-0300 |
| J109 | Wilmington, NC to Buffalo, NY | North | 1100-0300 |
| J165 | Charleston, SC to Richmond, VA | North | 1100-0300 |
| J191 | Wilmington, NC to Robbinsville, NJ | North | 1100-0300 |
| J193 | HUBBS Int., VA to Wilmington, NC | South | 1100-0300 |
| J207 | Florence, SC to Franklin, VA | Northeast | 1100-0300 |
| J208 | Athens, GA to Hopewell, VA | Northeast | 1100-0300 |
| J209 | Greenwood, SC to Norfolk, VA | Northeast | 1100-0300 |

GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

Q100

LEV VORTAC
 REDFN N28°52.98' / W088°42.11'
 ROZZI N28°18.87' / W086°42.31'
 REMIS N27°53.04' / W085°15.47'
 SRQ VORTAC

Q102

LEZ VORTAC
 BLVNS N28°22.94' / W088°02.05'
 BUNNZ N28°00.58' / W086°45.76'
 BACCA N27°35.51' / W085°20.66'
 CIGAR N27°29.61' / W084°46.99'
 BAGGS N27°08.06' / W082°50.45'
 CYY VORTAC

Q105

HRV VORTAC
 FATSO N29°41.40' / W089°47.08'
 REDFN N28°52.98' / W088°42.11'
 BLVNS N28°22.94' / W088°02.05'

Q-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

| Route | Segment | DME |
|-------|-------------------|--|
| Q1 | ELMAA-ERAVE | BTG, OLM, HQM, HUH, UBG |
| | ERAVE-EASON | BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG |
| | EASON-EBINY | CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT |
| | EBINY-ENVIE | CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS |
| | ENVIE-ETCHY | OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS |
| | ETCHY-POINT REYES | LIN, ECA, RBL, ENI, SAC, OAK |
| Q2 | BOILE-HEDVI | HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR |
| | HEDVI-HOBOL | BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS |
| | HOBOL-ITUCO | TFD, GBN, BLH, PXR, TUS, CIE, SSO |
| | ITUCO-NEWMAN | EWM, TFD, PXR, CIE, SSO, TUS, TCS |
| Q3 | FEPOT-FAMUK | OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG |
| | FAMUK-FRFLY | BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT |
| | FRFLY-FINER | OED, EUG, RBL, LMT, ENI, CVO, FJS |
| | FINER-FOWND | OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS |
| | FOWND-POINT REYES | LIN, ECA, PYE, RBL, SAC, ENI |
| Q4 | BOILE-HEDVI | HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR |
| | HEDVI-SCOLE | EED, BLH, BZA, GBN, TRM, IPL, TFD |
| | SCOLE-SPTFR | EED, BLH, BZA, GBN, TRM, IPL, TFD |
| | SPTFR-ZEBOL | EED, IPL, BZA, GBN, TFD, PXR, BLH |
| | ZEBOL-SKTRR | PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS |
| | SKTRR-EL PASO | EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME |

| 460 | Q-ROUTES | |
|-------|--------------------------|--|
| Route | Segment | DME |
| Q5 | HAROB-HISKU | OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH |
| | HISKU-HARPR | ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV |
| | HARPR-HOMEG | CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV |
| | HOMEG-HUPTU | SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS |
| | HUPTU-STIKM | OAK, ECA, PYE, LIN, SAC, ENI, RBL |
| Q7 | JINMO-JOGEN | CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA |
| | JOGEN-JUNEJ | LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG |
| | JUNEJ-JAGWA | RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS |
| Q9 | JAGWA-AVENAL | OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ |
| | SUMMA-SMIGE | OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH |
| | SMIGE-SUNBE | IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG |
| | SUNBE-REBRG | RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR |
| | REBRG-DERBB | CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA |
| Q11 | PAAGE-PAWLI | EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA |
| | PAWLI-PITVE | EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO |
| | PITVE-PUSHH | FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ |
| | PUSHH-LOS ANGELES | SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS |
| Q13 | All segments | None; GNSS required |
| Q15 | All segments | None; GNSS required |
| Q19 | PLESS-NASHVILLE | ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX |
| Q20 | CORONA-HONDS | CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME |
| | HONDS-UNNOS | CNX, INK, CME, TXO, TCC |
| | UNNOS-FUSCO | FST, ACH, INK, CME, SJT, TXO, TCC |
| | FUSCO-JUNCTION | ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST |
| | JONEZ-RAZORBACK | BYP, EOS, TUL, TXK, ADM, RZC, OKM |
| Q21 | GUSTI-OYSTY | AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV |
| | OYSTY-ACMES | RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI |
| | ACMES-CATLN | SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI |
| | FORT SMITH-RAZORBACK | OKM, RZC, EOS, TUL |
| Q24 | LAKE CHARLES-BATON ROUGE | AEX, DAS, LCH, MCB, LFT, BTR |
| | BATON ROUGE-IRUBE | AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY |
| Q25 | IRUBE-PAYTN | GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI |
| | MEEOW-WALNUT RIDGE | ELD, MEM, LIT, FAM, RZC |
| | WALNUT RIDGE-WLSUN | MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH |
| | WLSUN-POCKET CITY | BWG, PXV, ENL, BNA, TTH |
| Q26 | WALNUT RIDGE-DEVAC | LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG |
| Q27 | FORT SMITH-ZALDA | OKM, SGF, RZC, EOS, TUL |
| Q28 | GRAZN-PYRMD | EIC, LIT, ELD, OKM, TXK |
| | PYRMD-HAKAT | ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK |
| | HAKAT-ESTEE | ARG, LIT, FAM, SGF, MEM |
| | ESTEE-POCKET CITY | ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA |
| Q29 | HARES-MEMPHIS | MEM, ARG, LIT, JAN, ELD, SQS |
| | MEMPHIS-SIDAE | MEM, PXV, BNA, BWG, ARG, ENL |
| | SIDAE-POCKET CITY | PXV, TTH, BWG, ENL |
| | SIDON-VULCAN | GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG |
| Q30 | DHART-JODOX | SQS, LIT, TXK |
| Q31 | JODOX-MARVELL | SQS, LIT, ELD, MEM, ARG |
| | MARVELL-TIIDE | ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH |
| | TIIDE-POCKET CITY | BWG, PXV, ENL, TTH |
| | EL DORADO-GAGLE | AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK |
| Q32 | GAGLE-CRAMM | JAN, SQS, MEM, ARG, VUZ, BNA, LIT |
| | CRAMM-NASHVILLE | BWG, MEM, VUZ, BNA, GQO |
| | NASHVILLE-SWAPP | BWG, IIU, PXV, VXV, BNA, GQO |
| | DHART-LITTLE ROCK | AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS |
| Q33 | LITTLE ROCK-PROWL | ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL |
| | TEXARKANA-MATIE | LIT, SWB, TXK, BYP, EIC, ELD, SQS |
| Q34 | MATIE-MEMPHIS | LIT, ARG, MEM, ELD, SQS |
| | MEMPHIS-SWAPP | BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV |
| | KIMBERLY-NEERO | LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO |
| | NEERO-WINEN | BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE |
| Q35 | WINEN-CORKR | CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK |
| | CORKR-DRAKE | TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD |

| Route | Segment | DME |
|-------------|-----------------------|--|
| Q36 | RAZORBACK-TWITS | RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT |
| | TWITS-DEPEC | MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU |
| | DEPEC-NASHVILLE | GQO, BWG, BNA, PXV, IIU |
| | NASHVILLE-SWAPP | VXV, BWG, BNA, GQO, PXV, IIU |
| Q38 | ROKIT-INCIN | DAS, LCH, SWB, IAH, LFK, HUB, AEX |
| | INCIN-LAREY | JAN, MCB, SWB, AEX |
| | LAREY-BESOM | JAN, JYU, MEI, SQS, VUZ |
| Q40 | ALEXANDRIA-DOOMS | AEX, SWB, LCH, JAN, HEZ, MCB |
| | DOOMS-WINAP | JAN, SQS, MEI, MCB |
| Q42 | WINAP-MISLE | MEI, VUZ, JYU |
| | KIRKSVILLE-STRUK | CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX |
| | STRUK-DANVILLE | ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK |
| | DANVILLE-MUNCIE | GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM |
| | MUNCIE-HIDON | FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC |
| | HIDON-BUBAA | AIR, APE, HNN, CXR, HVQ, EWC, DJB |
| | BUBAA-PSYKO | AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB |
| | PSYKO-BRNAN | PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT |
| | BRNAN-MAALS | EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE |
| | MAALS-SUZIE | ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK |
| Q104 | SUZIE-EAST TEXAS | JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN |
| | EAST TEXAS-ELIOT | HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK |
| | DEFUN-HEVVN | PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG |
| | HEVVN-PLYER | PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD |
| | PLYER-SWABE | PIE, ORL, OMN, SRQ, TAY |
| | SWABE-ST PETERSBURG | LAL, ORL, OMN, SRQ, PHK, PIE |
| | ST PETERSBURG-CYPRESS | PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN |
| | SMELZ-BULZI | LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW |
| Q106 | BULZI-DRABK | AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI |
| | DRABK-GADAY | MGM, PZD, OTK, JYU, SZW, CEW, SJI |
| Q108 | GADAY-HKUNA | CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG |
| Q110 | THNOR-JAYMC | SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI |
| | JAYMC-RVERO | VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP |
| | RVERO-KPASA | OMN, PIE, PBI, SRQ, ORL, LAL |
| | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-GULFR | OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK |
| Q112 | GULFR-FEONA | TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM |
| | DEFUN-HEVVN | PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB |
| | HEVVN-INPIN | JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG |
| Q116 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-GULFR | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK |
| | GULFR-CEEYA | MCN, AMG, PZD, OTK, SZW, TAY |
| Q118 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-LENIE | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN |
| Q501 | VIXIS-GOPHER | ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF |
| | GOPHER-SOBME | FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD |
| | KENPA-GOPHER | SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD |
| Q504 | GOPHER-SOBME | FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD |
| | NOTAP-CESNA | SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD |
| | CESNA-HEMDI | ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD |
| Q505 | OMAGA-RIMBE | SSM, TVC, ASP, SAW, GRB |
| | RIMBE-CESNA | SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI |
| | CESNA-HEMDI | GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB |

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

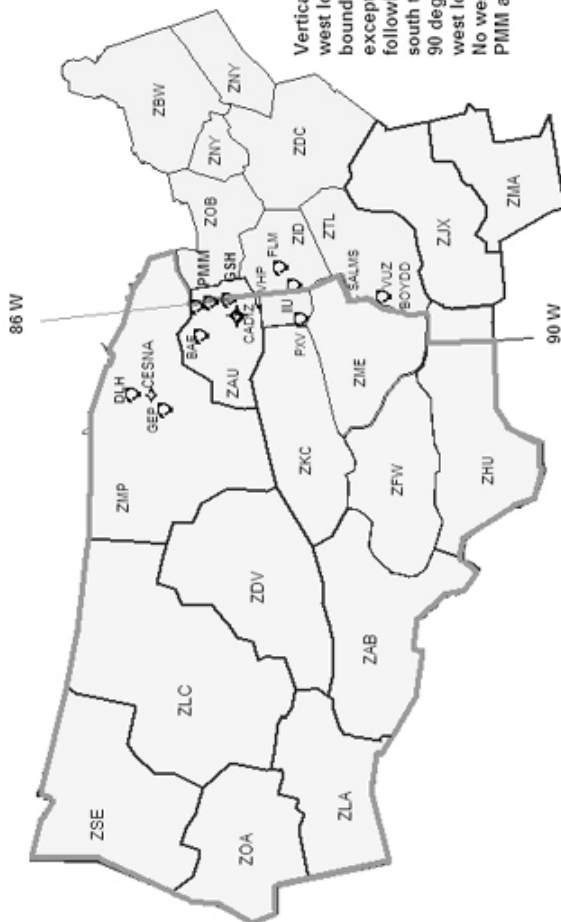
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZID boundary, except between PMMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMMM and GSH.

HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

| | |
|---|--|
| Albuquerque | ABQ, GUP, HANOS or ZUN |
| Austin | ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV |
| Boca Raton, FL | TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY |
| Burbank includes Santa Monica and Van Nuys | GMN, MARKS or DAG LAS or HEC EED or PMD BLH |
| Chicago Terminal Area | IOW, PLL275065, MZV or BAE |
| Dallas/Fort Worth Terminal Area | ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR |
| Denver Terminal Area | PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE |
| Fort Lauderdale (or) Fort Lauderdale Executive | THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI |
| Houston Bush | LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42 |

| | |
|--------------------------------------|--|
| Houston Hobby | LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42 |
| Jacksonville, FL | TAY |
| Kansas City Terminal Area | TIFTO, CATTS or KENTN |
| Los Angeles, includes Ontario | GMN, RZS or DAG LAS or TRM EED or TRM PKE |
| Las Vegas | DOBNE, MOSBI, NICLE, TRALR or ZELOT |
| Long Beach includes Orange County | GMN SNS, EHF, LANDO or TRM PKE or TRM EED |
| Memphis | BNA, HAAWK, SALMS or SQS |
| Miami Terminal Area | WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI |
| Milwaukee | GREAS |
| Minneapolis Terminal Area* | ONL, ABR, FAR, OBH, OVR, FOD |
| New Orleans Terminal Area | AEX, MEI, SQS, KAPLN |
| Orlando Terminal Area | WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI |
| Palm Beach, FL | TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY |
| Palm Springs | TRM JOTNU BLD or TRM EED or TRM PKE |
| Phoenix | CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK |
| Portland, OR | PDT, TIMEE |

| | |
|---|--|
| Salt Lake City | HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR |
| Saint Louis | VIH, MAP, MYERZ, MCM or HLV MCI |
| San Antonio Terminal Area | FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH |
| San Diego | TRM EED or TRM PKE or TRM JOTNU BLD |
| San Francisco Bay Area Oakland San Jose | GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO |
| Seattle | BLUIT |
| Southwest Florida Airports (RSW/FMY) | JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI |
| Tampa Terminal Area | FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY |

*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

| | |
|-----------------------|--|
| Atlanta Terminal Area | Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVA or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR |
|-----------------------|--|

| | |
|-----------------------------|---|
| Baltimore–Washington* | GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ |
| Boston* | GEP, CRL, ECK, IIU, BNA or VUZ |
| Buffalo* | GEP, CRL |
| Hartford Bradley* | GEP, CRL |
| Canton–Akron* | GIJ, VHP, GEP |
| Charlotte | BNA, VUZ |
| Cincinnati Terminal Area | BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT |
| Cleveland Terminal Area* | OBK |
| Detroit Terminal Area | BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR |
| Detroit Young | VHP FWA or LAN SPRTN–STAR |
| Indianapolis Terminal Area | BIB, SPI, JOT |
| Louisville | ENL, MEM |
| Newark* | GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM |
| New York Kennedy* | GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR |
| New York LaGuardia* | GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ |
| Philadelphia Terminal Area* | GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ |
| Pittsburgh Terminal Area* | VHP, GIJ, BAE, GEP |
| Pontiac | LFD, LAN, VHP, FWA, GEP |
| Providence | JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ |
| Raleigh–Durham | FLM, IIU, BNA, VUZ |
| Toronto Terminal Area | ECK, SVM, SSM, GEP |
| Teterboro* | GEP, VHP, CRL, BNA, VUZ |
| Washington Dulles/National* | GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ |
| White Plains* | GEP, VHP, CRL, FLM, IIU, BNA, VUZ |
| Willow Run* | LAN, LFD, VHP, FWA, GEP |

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or
Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or
Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area

CURLY CURLY-STAR
or
ESPAN FRIHO-STAR
or
LAVAN LAVAN-STAR
or
FTI FRIHO-STAR
or
MIERA MIERA-STAR

Austin Terminal Area

Aircraft west of a north-south line at LFK, BLEWE
or
Aircraft east of a north-south line at LFK, IDU
or
LLO

Boca Raton, FL

CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR
Aircraft through ZHU remain south of ZME and ZTL airspace
or
DEFUN Q112 INPIN SHDAY (RNAV)-STAR
Aircraft through ZHU remain south of ZME and ZTL airspace
or
SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway

CVA MOTIF-STAR
or
PIA MOTIF-STAR
or
DBQ CVA MOTIF-STAR
or
LMN MOTIF-STAR

Chicago O'Hare Terminal Area

GEP DLL MSN JVL JANESVILLE-STAR
or
TVC PULLMAN-STAR
or
FOD DBQ JVL JANESVILLE-STAR
or
MCW JANESVILLE-STAR
or
GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area

IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR
Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM
or
Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW
or
Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS
or
Aircraft through ZME airspace from J52 and south of J52, SQS

| | |
|---|---|
| Denver Terminal Area | OATHE DANDD-STAR |
| | or |
| | HGO QUAIL-STAR |
| | or |
| | LOPEC-STAR |
| | or |
| | ALS LARKS-STAR |
| | or |
| | HBV POWDR-STAR |
| | or |
| | EKR TOMSN-STAR |
| | or |
| | CHE TOMSN-STAR |
| | or |
| | BFF LANDR-STAR |
| | or |
| | LBF SAYGE-STAR |
| | or |
| | HCT SAYGE-STAR |
| | or |
| | RSK LARKS-STAR |
| | or |
| | LAA QUAIL-STAR |
| | or |
| | GCK J154 RYLIE DANDD-STAR |
| | or |
| | OCS J154 ALPOE RAMMS-STAR |
| | or |
| | YANKI J114 SNY LANDR-STAR |
| | or |
| | Aircraft filed BIL or east, MBW RAMMS-STAR |
| | CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR |
| Ft Lauderdale or Ft Lauderdale Executive | Aircraft through ZHU airspace remain south ZME and ZTL airspace |
| | or |
| Houston Bush | SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR |
| | CRP, CVE, LLO, LUKIY, SAT |
| | or |
| | Aircraft south and east of LLA, JEPEG |
| | or |
| | MISLE Q40 AEX |
| | or |
| | Aircraft north and east of SJI, SJI |
| | or |
| | Aircraft east of PXV, PXV Q31 DHART SWB |
| Houston Hobby | or |
| | Aircraft north and west of PXV, PROWL Q33 DHART SWB |
| | CRP, ELLVR, SAT, SWB |
| | or |
| | Aircraft south and east of GIRLY, KCEEE |
| | or |
| | Aircraft north and east of SJI, SJI |
| | or |
| | BESOM Q38 ROKIT ROKIT-STAR |
| | or |
| Jacksonville | Aircraft east of PXV, PXV Q29 HARES SWB |
| | or |
| | Aircraft north and west of PXV, PROWL Q33 DHART SWB |
| | GADAY ZOOSS TAY |
| | Aircraft through ZHU airspace remain south of ZME and ZTL airspace |
| | or |
| | ZOOSS TAY |
| | |
| | |
| | |

| | |
|---------------------------|---|
| John Wayne—Orange County | HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI |
| Kansas City Terminal Area | LMN BRAYMER—STAR or PWE ROBINSON—STAR or EMP JHAWK—STAR |
| Las Vegas | DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY |
| Los Angeles Terminal Area | Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI |
| Miami Terminal Area | CEW DEFUN Q104 CYY DEEDS (RNAV)—STAR Aircraft through ZHU airspace remain south ZME and ZTL and or SZW HEVVN Q104 CYY DEEDS (RNAV)—STAR |
| Minneapolis Terminal Area | Aircraft from north, west, south, FAR GOPHER—STAR or RWF SKETR—STAR or ALO KASPR—STAR or BRD GOPHER—STAR or BAE EAU CLAIRE—STAR or FOD TWOLF—STAR |
| Memphis Terminal Area | ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD |
| Naples, FL | CEW DEFUN Q104 PLYER PIKKR (RNAV)—STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL and or SZW HEVVN Q104 PLYER PIKKR (RNAV)—STAR |
| Nashville | CCT, GHM, GUITR, TINGS, VOLLS |
| New Orleans Terminal Area | BLUEZ, GPT, LCH, MCB, TBD, FATSO |
| Oakland | ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY |
| Orlando Terminal Area | GADAY Q108 CLAWZ LEESE—STAR Aircraft through ZHU airspace remain south of ZME/ZTL and or OTK LEESE—STAR |

| | |
|------------------------------|---|
| Palm Beach, FL | CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR |
| Phoenix | CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS |
| Phoenix Satellites | FLG, SSO, MOHAK or VYLLA, TUS |
| Portland, OR Terminal Area | ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR |
| St. Louis Terminal Area | SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR |
| Salt Lake City Terminal Area | JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR |
| San Diego Terminal Area | EED, LAX, GBN |
| Santa Ana | HEC, PGS, BLD, HIPPI |
| San Antonio Terminal Area | IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU |

| | |
|---|---|
| San Francisco | FMG GOLDEN GATE–STAR or MVA MODESTO–STAR or ENI GOLDEN GATE–STAR or OAL MODESTO–STAR or South of a line ILC to DVC, REANA KATTS OAL MODESTO–STAR |
| San Jose | FMG HYP EL NIDO–STAR or OAL HYP EL NIDO–STAR or ENI GOLDEN GATE–STAR or South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO–STAR |
| Seattle Terminal Area | Aircraft From northeast, southeast, south, TEMPL GLASR–STAR or SUNED CHINS–STAR or BTG OLMYPIA–STAR |
| Southwest Florida Airports RSW and FMY | CEW DEFUN Q104 SWABE JOSFF–STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW HEVVN Q104 SWABE JOSFF–STAR |
| Tampa Terminal Area | CEW DEFUN Q104 HEVVN DARBS–STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW DARBS–STAR |
| Tucson | DRK PXR or MOHAK GBN |

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag.

The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|-------------------------|
| VPAXI | _____ | N38°34.57' /W076°20.38' |
| VPONX | _____ | N39°06.65' /W076°55.92' |
| VPPOF | _____ | N38°56.32' /W076°36.90' |

BOSTON HELICOPTER CHART

| | | |
|-------|-------|-------------------------|
| VPBAY | _____ | N42°16.17' /W070°49.48' |
| VPBLT | _____ | N42°19.67' /W070°53.40' |
| VPCGS | _____ | N42°22.08' /W071°03.13' |
| VPEVS | _____ | N42°23.52' /W071°04.10' |
| VPFEN | _____ | N42°12.58' /W071°08.88' |
| VPFRE | _____ | N42°25.03' /W071°12.32' |
| VPGLV | _____ | N42°21.88' /W070°52.18' |
| VPHAM | _____ | N42°30.13' /W071°07.15' |
| VPPIK | _____ | N42°20.37' /W071°15.93' |
| VPQUA | _____ | N42°12.10' /W071°04.78' |
| VPQUB | _____ | N42°12.60' /W070°59.83' |
| VPSPF | _____ | N42°24.20' /W071°09.47' |
| VPTOB | _____ | N42°31.42' /W070°59.82' |
| VPWAN | _____ | N42°36.88' /W071°19.45' |

BOSTON TERMINAL AREA CHART

| | | |
|-------|----------------------------|-------------------------|
| VPCOH | COHASSET | N42°13.58' /W070°48.94' |
| VPCUT | CUTTYHUNK HARBOR | N41°25.50' /W070°55.03' |
| VPFRA | FRAMINGHAM SHOPPING CENTER | N42°18.16' /W071°23.65' |
| VPHOL | WOODS HOLE | N41°31.06' /W070°40.60' |
| VPHUL | HULL | N42°18.20' /W070°55.30' |
| VPLPT | NANTUCKET GREAT POINT | N41°23.41' /W070°02.78' |
| VPNED | NEEDHAM TOWERS | N42°18.51' /W071°14.64' |
| VPPEA | PEABODY SHOPPING CENTER | N42°32.52' /W070°56.69' |
| VPROC | ROCKINGHAM RACE TRACK | N42°46.29' /W071°13.57' |
| VPSCI | SCITUATE | N42°11.89' /W070°43.69' |
| VPTPT | NANTUCKET THIRD POINT | N41°18.51' /W070°03.37' |
| VPTUC | TUCKERNUCK | N41°18.31' /W070°15.43' |
| VPWAK | WAKEFIELD | N42°30.72' /W071°05.24' |
| VPWAN | WANG TOWERS | N42°36.88' /W071°19.45' |

CHARLOTTE SECTIONAL CHART

| | | |
|-------|---------------|-------------------------|
| VPATO | _____ | N34°37.37' /W076°31.47' |
| VPAVA | _____ | N34°57.00' /W077°16.50' |
| VPBFE | _____ | N32°16.38' /W080°47.50' |
| VPBRA | _____ | N36°13.75' /W076°08.08' |
| VPGCE | _____ | N36°03.90' /W076°36.42' |
| VPGHI | _____ | N35°15.30' /W075°31.25' |
| VPGIO | _____ | N35°32.50' /W076°37.33' |
| VPKJU | _____ | N35°26.58' /W076°10.22' |
| VPLMN | _____ | N34°55.43' /W077°46.42' |
| VPMAB | _____ | N34°42.20' /W077°03.50' |
| VPNPO | ISLE OF PALMS | N32°47.78' /W079°46.45' |
| VPOKY | _____ | N35°06.53' /W075°59.17' |
| VPREP | _____ | N32°33.98' /W080°21.82' |
| VPRRS | _____ | N33°25.45' /W079°07.60' |
| VPUMO | _____ | N35°35.63' /W075°28.08' |
| VPWZO | _____ | N36°00.87' /W075°40.07' |
| VPZIE | _____ | N32°01.62' /W080°53.42' |

| | | |
|----------------|--|------------------------|
| 474 | VFR WAYPOINTS | |
| | DENVER TERMINAL AREA CHART/FLYWAY CHART | |
| VPBEN | _____ | N39°44.28' /W104°26.00 |
| VPFTG | _____ | N39°44.35' /W104°32.75 |
| VPNIC | NORTH INTERCHANGE | N39°58.90' /W104°59.27 |
| | HOUSTON TERMINAL AREA CHART/FLYWAY CHART | |
| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
| VPBWY | _____ | N29°46.25' /W095°09.24 |
| VPDTN | _____ | N29°46.59' /W095°22.01 |
| VPGLA | _____ | N30°08.32' /W095°06.62 |
| VPGLB | _____ | N30°07.80' /W094°55.70 |
| VPKTY | _____ | N29°47.05' /W095°44.92 |
| VPPLN | _____ | N30°08.80' /W095°50.42 |
| VPRSN | _____ | N29°30.00' /W095°41.00 |
| VPSND | _____ | N29°23.13' /W095°28.86 |
| VPSNT | _____ | N29°49.29' /W094°53.94 |
| VPTNE | _____ | N29°47.48' /W095°03.34 |
| VPTNW | _____ | N29°47.06' /W095°33.81 |
| VPTRK | _____ | N29°24.06' /W095°10.44 |
| | JACKSONVILLE SECTIONAL CHART | |
| VPAFI | _____ | N31°49.35' /W081°51.07 |
| VPAFY | _____ | N30°07.00' /W081°21.33 |
| VPBEC | _____ | N29°46.25' /W081°15.10 |
| VPCJA | _____ | N29°30.00' /W081°06.00 |
| VPCKY | _____ | N28°46.50' /W082°34.00 |
| VPCNY | _____ | N28°30.00' /W080°45.00 |
| VPDAD | DADE CITY | N28°22.57' /W082°11.25 |
| VPDAR | _____ | N31°22.38' /W081°24.13 |
| VPDFI | _____ | N29°00.17' /W081°20.85 |
| VPDUT | _____ | N27°37.70' /W082°09.10 |
| VPEAR | CLEARWATER BEACH | N27°58.67' /W082°49.83 |
| VPEGV | _____ | N29°39.97' /W081°24.87 |
| VPFFU | _____ | N28°57.08' /W081°00.33 |
| VPGPE | ST PETE BEACH | N27°43.50' /W082°44.67 |
| VPHAA | _____ | N30°04.02' /W083°40.02 |
| VPHUC | _____ | N28°19.87' /W082°43.77 |
| VPIWA | MIDWAY | N31°48.33' /W081°25.85 |
| VPJMY | _____ | N29°26.92' /W081°18.27 |
| VPKER | LAKE PARKER | N28°04.00' /W081°56.00 |
| VPLEV | _____ | N28°48.00' /W080°52.00 |
| VPLJA | _____ | N29°00.00' /W080°51.00 |
| VPMAI | _____ | N30°50.02' /W084°56.63 |
| VPTLH | _____ | N30°32.70' /W083°52.22 |
| VPXZY | _____ | N29°35.00' /W083°10.00 |
| VPYIW | _____ | N30°42.28' /W081°27.25 |
| VPZIE | _____ | N32°01.62' /W080°53.42 |
| | KANSAS CITY SECTIONAL CHART | |
| VPAGO | _____ | N37°50.33' /W090°29.03 |
| VPBEK | _____ | N37°15.07' /W092°30.67 |
| VPDEN | _____ | N37°46.75' /W092°19.20 |
| VPENE | _____ | N37°44.75' /W091°55.78 |
| VPESS | _____ | N36°59.48' /W091°00.88 |
| VPFME | _____ | N37°41.00' /W092°38.33 |
| VPGXY | _____ | N37°15.50' /W091°40.17 |
| VPMBE | _____ | N37°11.08' /W090°27.92 |
| VPMKE | _____ | N37°24.47' /W092°40.00 |
| VPROV | _____ | N38°01.72' /W091°12.81 |
| VPUTT | _____ | N37°52.05' /W092°01.20 |
| | SE. 23 SEP 2010 to 18 NOV 2010 | |

KANSAS CITY TERMINAL AREA CHART

KLAMATH FALLS SECTIONAL CHART

LOS ANGELES HELICOPTER CHART

SE, 23 SEP 2010 to 18 NOV 2010

| 476 VFR WAYPOINTS | | |
|-----------------------------|---------------------------|------------------------|
| LOS ANGELES SECTIONAL CHART | | |
| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54' /W118°59.61 |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76' /W119°02.53 |
| VPFPL | OXNARD FINANCIAL PLAZA | N34°13.71' /W119°10.39 |
| VPSTC | SATICOY BRIDGE | N34°16.62' /W119°08.34 |

| LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART | | |
|--|---------------------------|------------------------|
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54' /W118°59.61 |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76' /W119°02.53 |
| VPGTY | GETTY CENTER | N34°04.84' /W118°28.66 |
| VPLBP | BANNING PASS | N33°56.05' /W116°59.63 |
| VPLCC | CHAFFEY COLLEGE | N34°08.87' /W117°34.33 |
| VPLCP | CAJON PASS | N34°18.07' /W117°27.68 |
| VPLDL | DISNEYLAND | N33°48.72' /W117°55.13 |
| VPLDP | DANA POINT | N33°27.62' /W117°42.87 |
| VPLDS | DODGER STADIUM | N34°04.42' /W118°14.42 |
| VPLFX | 91/605 INTERCHANGE | N33°52.38' /W118°06.08 |
| VPLGP | GRIFFITH PARK OBSERVATORY | N34°07.10' /W118°18.02 |
| VPLHF | 110/405 FWYS | N33°51.42' /W118°17.10 |
| VPLHP | HUNTINGTON PIER | N33°39.32' /W118°00.25 |
| VPLKH | KING HARBOR | N33°50.75' /W118°23.88 |
| VPLLC | L.A. COLISEUM | N34°00.83' /W118°17.27 |
| VPLLM | LAKE MATHEWS | N33°50.58' /W117°26.85 |
| VPLMM | MAGIC MOUNTAIN | N34°26.20' /W118°36.28 |
| VPLMS | MILE SQUARE PARK | N33°43.40' /W117°56.77 |
| VPLPD | PRADO DAM | N33°53.40' /W117°38.48 |
| VPLPP | PACIFIC PALISADES | N34°02.13' /W118°32.15 |
| VPLQM | QUEEN MARY | N33°45.17' /W118°11.37 |
| VPLRB | ROSE BOWL | N34°09.67' /W118°10.05 |
| VPLRT | SANTA ANITA RACE TRACK | N34°08.45' /W118°02.65 |
| VPLSA | SANTA ANA CANYON | N33°52.03' /W117°42.68 |
| VPLSB | SANTA FE FLOOD BASIN | N34°07.72' /W117°57.30 |
| VPLSC | STATE COLLEGE | N33°52.97' /W117°53.13 |
| VPLSF | SAN FERNANDO RESERVOIR | N34°17.87' /W118°29.00 |
| VPLSP | SIGNAL PEAK | N33°36.33' /W117°48.63 |
| VPLSR | HAWTHORNE & 405 FREEWAY | N33°53.07' /W118°21.13 |
| VPLSS | SANTA SUSANA PASS | N34°16.00' /W118°38.43 |
| VPLTW | TUJUNGA WASH & FOOTHILL | N34°16.40' /W118°20.30 |
| VPLVT | VINCENT THOMAS BRIDGE | N33°44.97' /W118°16.32 |
| VPLWT | WATER TANK | N34°10.82' /W118°46.27 |
| VPNEW | NEWHALL PASS | N34°20.18' /W118°30.72 |
| VPSTC | SATICOY BRIDGE | N34°16.62' /W119°08.34 |

| MIAMI SECTIONAL CHART | | |
|-----------------------|-------------------|------------------------|
| VPACH | HOLLYWOOD BEACH | N26°00.92' /W080°06.93 |
| VPBOV | _____ | N27°57.00' /W080°46.75 |
| VPCLE | _____ | N26°27.07' /W082°00.88 |
| VPCTE | _____ | N26°09.28' /W081°20.70 |
| VPDAD | DADE CITY | N28°22.57' /W082°11.25 |
| VPDUT | _____ | N27°37.70' /W082°09.10 |
| VPDZE | _____ | N27°19.00' /W080°44.17 |
| VPEAR | CLEARWATER BEACH | N27°58.67' /W082°49.83 |
| VPEDY | ANDYTOWN TOLLGATE | N26°08.78' /W080°28.00 |
| VPFAH | _____ | N26°25.40' /W081°29.67 |
| VPGPE | ST PETE BEACH | N27°43.50' /W082°44.67 |
| VPHRO | _____ | N27°05.97' /W082°12.20 |
| VPHUC | _____ | N28°19.87' /W082°43.77 |
| VPIBR | _____ | N27°12.47' /W081°40.22 |
| VPKER | LAKE PARKER | N28°04.00' /W081°56.00 |
| VPKOE | _____ | N24°40.08' /W081°20.55 |
| VPLYY | _____ | N24°49.07' /W080°49.17 |
| VPMBO | GULFSTREAM PARK | N25°58.57' /W080°08.17 |
| VPOBA | PUMPING STATION | N26°28.30' /W080°26.75 |
| VPRBI | _____ | N25°50.67' /W080°55.18 |
| VPRNL | RANGER STATION | N25°22.92' /W080°36.58 |
| VPWMO | _____ | N27°03.00' /W080°35.00 |

MIAMI TERMINAL AREA CHART/FLYWAY CHART

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|-------------------------|
| VPACH | HOLLYWOOD BEACH | N26°00.92' /W080°06.93' |
| VPEDY | ANDYTOWN TOLLGATE | N26°08.78' /W080°28.00' |
| VPMBO | GULFSTREAM PARK | N25°58.57' /W080°08.17' |
| VPOBA | PUMPING STATION | N26°28.30' /W080°26.75' |
| VPRBI | | N25°50.67' /W080°55.18' |
| VPRNL | RANGER STATION | N25°22.92' /W080°36.58' |

NEW ORLEANS SECTIONAL CHART

| | | |
|-------|----------------|-------------------------|
| VPGPT | | N30°25.95' /W089°05.62' |
| VPLIP | PHILLIPS INLET | N30°16.23' /W085°59.25' |
| VPMAI | | N30°50.02' /W084°56.63' |
| VPMOB | | N30°23.00' /W088°31.72' |
| VPRAM | | N30°18.95' /W089°35.88' |
| VPRER | | N30°13.87' /W085°20.67' |
| VPRIV | | N30°54.85' /W087°57.82' |
| VPSAW | | N30°49.65' /W089°07.42' |
| VPTHR | | N30°19.93' /W087°08.50' |

NEW YORK HELICOPTER CHART

| | | |
|-------|--|-------------------------|
| VPJAY | | N40°59.00' /W073°07.00' |
| VPLYD | | N40°57.37' /W073°29.59' |
| VPROK | | N40°52.70' /W073°44.24' |

PHOENIX TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|---------------------------|-------------------------|
| VPALL | ALLENVILLE | N33°20.97' /W112°35.20' |
| VPAQU | AQUEDUCT PUMPING STATION | N33°40.05' /W112°41.38' |
| VPARM | ARROWHEAD MALL | N33°38.52' /W112°13.48' |
| VPAWG | AHWATUKEE GOLF COURSE | N33°19.98' /W111°59.08' |
| VPAMZ | ARIZONA MILLS | N33°23.43' /W111°57.88' |
| VPBAR | BARTLETT DAM | N33°49.10' /W111°37.92' |
| VPCCC | COUNTRY CLUB & CANAL | N33°30.73' /W111°50.37' |
| VPCLN | CANAL | N33°33.23' /W111°46.89° |
| VPFRB | FIREBIRD LAKE | N33°16.35' /W111°58.10' |
| VPFTN | FOUNTAIN HILLS | N33°36.12' /W111°42.72' |
| VPGLX | GILA CROSSING | N33°16.55' /W112°10.08' |
| VPGPP | GLENDALE POWER PLANT | N33°33.27' /W112°13.00' |
| VPMAR | MARICOPA | N33°03.42' /W112°02.88' |
| VPMHS | MESQUITE HIGH SCHOOL | N33°20.53' /W111°49.58' |
| VPNRV | NEW RIVER | N33°55.08' /W112°08.45' |
| VPNTT | NORTH TEST TRACK | N33°03.50' /W111°55.83' |
| VPPIR | PIR | N33°22.52' /W112°18.90' |
| VPQTR | QUINTERO GOLF COURSE | N33°49.53' /W112°23.58' |
| VPRVC | RIO VERDE COMMUNITY | N33°44.37' /W111°39.62' |
| VPSMC | SOUTH MOUNTAIN COLLEGE | N33°23.02' /W112°02.12' |
| VPSQP | SQUAW PEAK | N33°32.83' /W112°01.27' |
| VPSSS | SUPERSTITION SPRINGS MALL | N33°23.50' /W111°41.37' |
| VPSTN | SANTAN MOUNTAINS | N33°09.23' /W111°40.92' |
| VPSTT | SOUTH TEST TRACK | N32°56.25' /W111°59.67' |
| VPZZZ | | N33°20.18' /W111°26.53' |

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

| | | |
|--------|---------------------------|-------------------------|
| VPAGN | TV ANTENNA | N38°32.08' /W090°22.42' |
| VPBPE | | N38°23.80' /W090°20.38' |
| VP CJY | HOLIDAY SHORES | N38°55.00' /W089°56.00' |
| VPCOJ | WINFIELD DAM | N39°00.28' /W090°41.23' |
| VPDFA | JEFFERSON BARRACKS BRIDGE | N38°29.18' /W090°16.47' |
| VPEAZ | BUSCH STADIUM | N38°37.43' /W090°11.55' |
| VPEDZ | WATER TANKS | N38°45.30' /W090°34.87' |
| VPEGR | GAS TANKS | N38°35.80' /W090°19.32' |
| VPEOX | ST PETERS | N38°47.17' /W090°39.25' |

| 478 | | VFR WAYPOINTS |
|----------------|---------------------------|------------------------|
| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
| VPFAI | HOWELL ISLAND | N38°40.00' /W090°43.00 |
| VPFFY | _____ | N38°55.37' /W090°17.30 |
| VPGPF | _____ | N38°35.60' /W090°26.92 |
| VPGVI | _____ | N38°32.30' /W090°27.80 |
| VPHRQ | CHAIN OF ROCKS BRIDGE | N38°45.88' /W090°10.42 |
| VPIBO | WATERLOO | N38°20.00' /W090°09.00 |
| VPJMU | HORSESHOE LAKE | N38°41.00' /W090°05.00 |
| VPKNY | PACIFIC | N38°29.00' /W090°44.00 |
| VPLES | ST CHARLES | N38°47.00' /W090°30.00 |
| VPLIW | SIX FLAGS | N38°30.67' /W090°40.47 |
| VPLXU | GATEWAY ARCH | N38°37.50' /W090°11.00 |
| VPNSY | WOOD RIVER REFINERIES | N38°50.00' /W090°05.00 |
| VPNZY | WENTZVILLE | N38°48.83' /W090°50.98 |
| VPRAZ | JERSEYVILLE | N39°07.00' /W090°20.00 |
| VPRMO | FOREST PARK | N38°38.00' /W090°17.00 |
| VPWKO | COLUMBIA | N38°27.00' /W090°12.00 |
| VPXXI | MILLSTADT | N38°27.50' /W090°05.68 |
| VPYID | MOSENTHEIN ISLAND | N38°43.00' /W090°12.25 |

SALT LAKE CITY HELICOPTER CHART

| | | |
|-------|-----------------------|------------------------|
| VPAIR | SALT AIR | N40°44.85' /W112°11.22 |
| VPBEE | SOUTH INTERCHANGE | N40°38.18' /W111°54.23 |
| VPBRN | BARN | N40°54.28' /W112°10.15 |
| VPCAP | STATE CAPITOL | N40°46.67' /W111°53.25 |
| VPCHS | _____ | N40°42.28' /W112°05.92 |
| VPCOP | BINGHAM COPPER MINE | N40°31.38' /W112°09.00 |
| VPCWY | CAUSEWAY | N41°05.37' /W112°07.17 |
| VPCYN | PARLEYS CANYON | N40°42.67' /W111°48.10 |
| VPFPC | FREE PORT CENTER | N41°05.92' /W112°02.27 |
| VPFPK | FRANCIS PEAK | N41°01.98' /W111°50.30 |
| VPGFS | GARFIELD STACK | N40°43.28' /W112°11.88 |
| VPHVE | SPAGHETTI BOWL | N40°43.50' /W111°54.22 |
| VPJRT | JORDAN RIVER TEMPLE | N40°35.02' /W111°55.58 |
| VPKSL | KSL ANTENNA | N40°46.80' /W112°05.80 |
| VPLGN | LAGOON AMUSEMENT PARK | N40°59.08' /W111°53.57 |
| VPMDH | MCKAY DEE HOSPITAL | N41°11.50' /W111°57.08 |
| VPMMT | MICROWAVE TOWERS | N40°48.50' /W111°53.37 |
| VPMSH | _____ | N41°01.67' /W112°02.47 |
| VPNSL | _____ | N40°50.15' /W111°54.90 |
| VPNTP | _____ | N41°03.57' /W112°14.23 |
| VPOGE | GRAIN ELEVATOR | N41°13.13' /W112°00.45 |
| VPOPS | POWER STATION | N41°20.38' /W112°02.78 |
| VPPEN | STATE PRISON | N40°29.88' /W111°53.62 |
| VPPPT | PROMONTORY POINT | N41°12.28' /W112°25.73 |
| VPPTM | POINT OF THE MOUNTAIN | N40°27.42' /W111°54.83 |
| VPPVO | PROVO CANYON | N40°18.77' /W111°39.45 |
| VPRWY | _____ | N40°48.48' /W112°00.33 |
| VPSLC | I-15/I-80 INTERCHANGE | N40°45.83' /W111°54.85 |
| VPTIP | SOUTH TIP | N40°50.93' /W112°10.92 |
| VPWBR | WEBER CANYON | N41°08.17' /W111°54.83 |
| VPWBT | _____ | N40°38.00' /W112°03.33 |

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|-------------------------|------------------------|
| VPAIR | SALT AIR | N40°44.85' /W112°11.22 |
| VPBEE | SOUTH INTERCHANGE | N40°38.18' /W111°54.23 |
| VPBRN | BARN | N40°54.28' /W112°10.15 |
| VPCAP | STATE CAPITOL | N40°46.67' /W111°53.25 |
| VPCHS | _____ | N40°42.28' /W112°05.92 |
| VPCOP | BINGHAM COPPER MINE | N40°31.38' /W112°09.00 |
| VPCVI | CENTERVILLE INTERCHANGE | N40°55.30' /W111°53.43 |
| VPCWY | CAUSEWAY | N41°05.37' /W112°07.17 |
| VPCYN | PARLEYS CANYON | N40°42.67' /W111°48.10 |
| VPFPC | FREE PORT CENTER | N41°05.92' /W112°02.27 |
| VPFPK | FRANCIS PEAK | N41°01.98' /W111°50.30 |
| VPGFS | GARFIELD STACK | N40°43.28' /W112°11.88 |

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|--------------------------|
| VPHVE | SPAGHETTI BOWL | N40°43.50' / W111°54.22' |
| VPJRT | JORDAN RIVER TEMPLE | N40°35.02' / W111°55.58' |
| VPKSL | KSL ANTENNA | N40°46.80' / W112°05.80' |
| VLGN | LAGOON AMUSEMENT PARK | N40°59.08' / W111°53.57' |
| VPMDH | MCKAY DEE HOSPITAL | N41°11.50' / W111°57.08' |
| VPMMT | MICROWAVE TOWERS | N40°48.50' / W111°53.37' |
| VPMSH | _____ | N41°01.67' / W112°02.47' |
| VPNSL | _____ | N40°50.15' / W111°54.90' |
| VPNTP | _____ | N41°03.57' / W112°14.23' |
| VPOGE | GRAIN ELEVATOR | N41°13.13' / W112°00.45' |
| VPOPS | POWER STATION | N41°20.38' / W112°02.78' |
| VPPEP | STATE PRISON | N40°29.88' / W111°53.62' |
| VPPTT | PROMONTORY POINT | N41°12.28' / W112°25.73' |
| VPPTM | POINT OF THE MOUNTAIN | N40°27.42' / W111°54.83' |
| VPVVO | PROVO CANYON | N40°18.77' / W111°39.45' |
| VPRWY | _____ | N40°48.48' / W112°00.33' |
| VPSLC | I-15/I-80 INTERCHANGE | N40°45.83' / W111°54.85' |
| VP TIP | SOUTH TIP | N40°50.93' / W112°10.92' |
| VP UOU | U OF U EVENTS CENTER | N40°45.73' / W111°50.28' |
| VPWBR | WEBER CANYON | N41°08.17' / W111°54.83' |
| VPWBT | _____ | N40°38.00' / W112°03.33' |
| VPZOO | HOGLE ZOO | N40°45.00' / W111°48.95' |

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|--------------------------|--------------------------|
| VPLDP | DANA POINT | N33°27.62' / W117°42.87' |
| VPLSP | SIGNAL PEAK | N33°36.33' / W117°48.63' |
| VPOCN | _____ | N33°14.15' / W117°26.63' |
| VPSBC | BARONA CASINO | N32°56.25' / W116°52.60' |
| VPSBL | _____ | N33°05.18' / W117°18.55' |
| VPSBM | BLACK MOUNTAIN | N32°58.87' / W117°07.00' |
| VPSCF | _____ | N32°48.55' / W117°09.17' |
| VPSCM | COWLES MOUNTAIN | N32°48.72' / W117°01.97' |
| VPSCP | CRYSTAL PIER | N32°47.77' / W117°15.42' |
| VPSCR | _____ | N32°39.37' / W117°07.30' |
| VPSFB | IRON MOUNTAIN | N32°58.25' / W116°57.33' |
| VPSLJ | LAKE JENNINGS | N32°51.53' / W116°53.28' |
| VPSMB | _____ | N32°45.57' / W117°12.22' |
| VPSMP | _____ | N33°22.70' / W117°36.75' |
| VPSMS | MOUNT SOLEDAD | N32°50.40' / W117°15.10' |
| VPSMV | _____ | N32°45.75' / W117°09.80' |
| VPSMW | MOUNT WOODSON | N33°00.52' / W116°58.23' |
| VPSOP | OTAY MESA PRISON | N32°35.82' / W116°55.28' |
| VPSOT | LOWER OTAY LAKE | N32°37.73' / W116°55.38' |
| VPSPL | SOUTH POINT LOMA | N32°39.90' / W117°14.55' |
| VPSPP | POWER PLANT | N33°08.25' / W117°20.23' |
| VPSQS | QUALCOMM STADIUM | N32°46.98' / W117°07.23' |
| VPSRT | DEL MAR RACE TRACK | N32°58.58' / W117°15.95' |
| VPSSM | SAN MIGUEL MOUNTAIN | N32°41.78' / W116°56.18' |
| VPSV | SAN VICENTE ISLAND | N32°55.53' / W116°55.00' |
| VPSTP | TORREY PINES GOLF COURSE | N32°54.17' / W117°14.68' |
| VPSVA | _____ | N33°11.48' / W117°16.38' |

SAN FRANCISCO SECTIONAL CHART

| | | |
|-------|-----------------|--------------------------|
| VPKBG | KINGSBURY GRADE | N38°58.75' / W119°53.20' |
|-------|-----------------|--------------------------|

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

| | | |
|--------|--------------------------|--------------------------|
| VPALT | ALTAMONT PASS | N37°44.35' / W121°35.42' |
| VPANT | ANTIOCH BRIDGE | N38°01.45' / W121°45.02' |
| VPBBR | BENICIA BRIDGE | N38°02.50' / W122°07.45' |
| VP CAL | CALAVERAS RESERVOIR | N37°28.16' / W121°48.93' |
| VP CBT | LAKE CHABOT | N37°43.68' / W122°06.94' |
| VP COY | COYOTE HILLS | N37°32.50' / W122°05.06' |
| VP CQZ | CARQUINEZ BRIDGE | N38°03.66' / W122°13.52' |
| VP CRL | _____ | N37°11.00' / W121°41.06' |
| VP CRY | CRYSTAL SPRINGS CAUSEWAY | N37°30.56' / W122°21.10' |

WAYPOINT IDENT

VPCSH
VPDAM
VPDLR
VPDUB
VPEMB
VPGGF
VPGIL
VPHHH
VPKGO
VPLEX
VPMID
VPMOR
VPNUM
VPPAC
VPPRU
VPSAR
VPSLA
VPSTB
VPSUN
VPUTC
VPWAL
VPWAM
VPWFR

COLLOCATED VFR CHECKPOINT

CAL STATE UNIVERSITY
DEL VALLE DAM

DUBLIN
EMBASSY SUITES
GOLDEN GATE FIELDS
GILROY
HAMILTON
KGO
LEXINGTON RESERVOIR
MID-SPAN SAN MATEO BRIDGE
MORMON TEMPLE
NUMMI PLANT

PRUNEYARD
SARATOGA
SLAC/LINEAR ACCELERATOR
STINSON BEACH
SUNOL GOLF COURSE
U.T.C.
WALNUT CREEK

CEMENT PLANT

LOCATION

N37°39.52'/W122°03.52'
N37°36.91'/W121°44.78'
N37°07.00'/W121°47.06'
N37°42.06'/W121°55.36'
N37°26.05'/W121°53.83'
N37°53.07'/W122°18.71'
N37°01.37'/W121°33.99'
N38°03.58'/W122°30.66'
N37°31.58'/W122°06.10'
N37°11.66'/W121°59.18'
N37°36.28'/W122°11.81'
N37°48.46'/W122°11.95'
N37°29.56'/W121°56.58'
N37°38.00'/W122°32.07'
N37°17.33'/W121°56.01'
N37°15.26'/W122°02.33'
N37°24.75'/W122°14.35'
N37°54.45'/W122°40.41'
N37°34.85'/W121°53.23'
N37°13.93'/W121°41.35'
N37°53.78'/W122°04.30'
N37°30.28'/W122°10.00'
N37°30.88'/W122°12.26'

TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV
VPCNY
VPDAD
VPDFI
VPDUT
VPEAR
VPFFU
VPGPE
VPHUC
VPKER
VPLEV
VPLJA

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

LAKE PARKER

N27°57.00'/W080°46.75'
N28°30.00'/W080°45.00'
N28°22.57'/W082°11.25'
N29°00.17'/W081°20.85'
N27°37.70'/W082°09.10'
N27°58.67'/W082°49.83'
N28°57.08'/W081°00.33'
N27°43.50'/W082°44.67'
N28°19.87'/W082°43.77'
N28°04.00'/W081°56.00'
N28°48.00'/W080°52.00'
N29°00.00'/W080°51.00'

WASHINGTON SECTIONAL CHART

VPACE
VPAXI
VPBRA
VPGCE
VPWZO

N38°07.82'/W076°48.75'
N38°34.57'/W076°20.38'
N36°13.75'/W076°08.08'
N36°03.90'/W076°36.42'
N36°00.87'/W075°40.07'

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ALABAMA VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--|------------|--|--------------------------------|-------------------------------|--|
| Brookley (Mobile Downtown) | 112.8/BFM | G | 313 | 1.68 | On runup area for rwy 14. VOR grand receiver checkpoint OTS indef. |
| Cairns AAF (Fort Rucker) | 111.2/OZR | G | 066 | 1.0 | On runup pad Twy F. |
| Enterprise Muni | 116.6/EDN | A/2000 | 341 | 7.4 | Red/white twr. |
| Monroeville (Monroe Co Arpt) | 116.8/MVC | G | 196 | 0.6 | Rwy 03 runup area/turnaround pad. |
| Montgomery (Montgomery Rgnl/ Dannelly Field) | 112.1/MGM | G | 318 | 6.2 | On Twy C north of Twy A. |
| Talladega Muni | 108.8/TDG | A/2000 | 084 | 9.0 | Over center of segmented circle. |
| Crimson (Tuscaloosa Rgnl) | 117.8/LDK | G | 238 | 4.2 | On centerline of Twy midway between ramp and rwy. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|---------|
| Birmingham-Shuttlesworth Intl | 110.0 | G | |
| Huntsville Intl-Carl T Jones Fld | 111.0 | G | |

FLORIDA VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---|
| Cypress (Naples Muni) | 108.6/CYY | G | 121 | 0.6 | On runup area Rwy 32. |
| Crestview (Bob Sikes) | 115.9/CEW | A/1200 | 106 | 8.6 | Over rotating bcn. |
| Lakeland Linder Rgnl | 116.0/LAL | G | 038 | 0.5 | On NE end of Twy C. |
| Melbourne Intl | 116.0/LAL | G | 283 | 1.1 | On Twy A-1. |
| Melbourne Intl | 110.0/MLB | G | 184 | 0.6 | SW corner of arpt at intersection of Twy C and D. |
| Ocala Intl-Jim Taylor Fld | 113.7/OCF | G | 167 | 1.0 | On taxiway E adjacent to E9. |
| Orlando (Executive) | 112.2/ORL | G | 324 | .5 | On Twy E near AER 13. |
| | | G | 311 | .5 | On Twy H near AER 13. |
| | | G | 45 | .6 | On E ramp near Twy A-3. |
| Pahokee (Palm Beach Co Glades) | 115.4/PHK | A/1500 | 022 | 13 | Over radio twr at intersection of 2 canals. |
| Panama City-Bay Co Intl | 114.3/PFN | G | 190 | 0.5 | Main terminal ramp. |

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VOR RECEIVER CHECK

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--------------------------------------|------------|------------------------------|--------------------------------|-------------------------------|------------------------------------|
| | | AB/ALT | | | |
| St. Petersburg–Clearwater Intl | 116.4/PIE | G | 154 | 0.6 | Rwy 32 run-up/Twy G. |
| | | G | 208 | 0.6 | Rwy 5 run-up/Twy D. |
| | | G | 046 | 0.4 | On circle located NE end of Twy M. |
| Vero Beach Muni | 117.3/VRB | G | 111 | 4.4 | Runup area Rwy 29R. |
| | | G | 114 | 4 | Compass rose on taxiway E. |
| | | G | 116 | 3.6 | Runup area Rwy 11R. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---------------------------------|-------|----------------------|-----------------------|
| Daytona Beach Intl | 111.0 | G | Unuseable E of Twy F. |
| Jacksonville Intl | 111.0 | G | |
| Miami Intl | 112.0 | G | |
| Palm Beach Intl | 109.0 | G | |
| Tallahassee Rgnl | 111.0 | G | |
| Tampa Intl | 111.0 | G | |

GEORGIA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--|------------|------------------------------|--------------------------------|-------------------------------|---|
| | | AB/ALT | | | |
| Athens (Madison Muni) | 109.6/AHN | A/2000 | 199 | 21 | Over center of rwy. |
| Athens (Athens/Ben Epps) | 109.6/AHN | G | 284 | 0.5 | Twy A2. |
| Atlanta (DeKalb–Peachtree) | 116.6/PDK | G | 004 | 0.5 | On runup area Rwy 20L. |
| | | | | | VOR ground checkpoint unavailable. |
| | | G | 218 | 0.5 | On runup area Rwy 02L and 02R. |
| Brunswick (Malcolm McKinnon) | 109.8/SSI | A/1050 | 029 | 7.2 | Over rotating bcn. |
| Columbus Metropolitan | 117.1/CSG | G | 146 | 7.1 | FBO ramp in front of ASOS equipment. |
| Dublin (W H ‘Bud’ Barron) | 113.1/DBN | G | 270 | 7.6 | Ramp. |
| Foothills (Toccoa RG Letourneau Fld) | 113.4/ODF | A/2000 | 179 | 6 | Over rotating bcn. |
| Hunter | 111.6/SVN | A/1500 | 090 | 15.5 | Over lighthouse. |
| Hunter AAF | 111.6/SVN | G | 271 | 1.2 | On Twy 6. |
| Lawson AAF | 111.4/LSF | G | 356 | .6 | On painted circle at taxiway intersection |
| | | | | | 580’ NW of twr. |
| Macon | 114.2/MCN | A/2000 | 028 | 13.6 | Over oil tank. |
| | | A/2000 | 320 | 9.5 | Over dam. |
| Pecan (Southwest Georgia Rgnl) | 116.1/PZD | A/1000 | 145 | 9 | Over rotating bcn E side of arpt. |
| Rome (Richard B Russel) | 115.4/RMG | G | 348 | 11.5 | At intersection of twy 200’ S of terminal building. |
| | | | | | VOR ground checkpoint unavailable. |
| Savannah | 112.7/SAV | A/1500 | 097 | 19.6 | Over red and white lighthouse. |
| Valdosta Rgnl | 114.8/OTK | G | 131 | 0.6 | On taxiway at apch end rwy 35. |
| Vienna (Crisp County–Cordele) | 116.5/VNA | A/1300 | 226 | 19 | Over center of NE/SW rwy. |
| Waycross–Ware Co. | 110.2/AYS | A/1200 | 099 | 8 | Over fire twr W side arpt. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|----------------|
| Atlanta (Hartsfield–Jackson Atlanta Intl) .. | 111.0 | G | VOT OTS indef. |
| (Atlanta Muni)..... | 111.0 | G | |
| Brunswick Golden Isles | 111.0 | G | |
| Savannah/Hilton Head Intl | 111.0 | G | |

KENTUCKY

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|--|
| Central City (Muhlenberg Co) | 109.8/CCT | A/2500 | 153 | 10.6 | Over intersection of Rwy 23 and central taxiway. |
| Clarksville (Campbell AAF) | 110.6/CKV | G | 307 | 4.9 | On taxiway 6 center romeo helipad. |
| Clarksville (Hopkinsville–Christian Co)..... | 110.6/CKV | A/2000 | 345 | 13.5 | Over hangar. |
| Fort Knox (Godman AAF)..... | 109.6/FTK | A/2000 | 270 | 9.2 | W of Godman AAF over a 298 ft twr. |
| Frankfort (Capital City) | 109.4/FFT | G | 082 | .7 | Runup pad Rwy 24. |
| London (London–Corbin Arpt–Magee Fld) | 116.1/LOZ | G | 033 | 3.8 | On parking ramp taxiway entry. |
| Owensboro–Daviess Co. | 108.6/OWB | G | 176 | .7 | On taxiway at apch end Rwy 36. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|---------|
| Louisville Intl–Standiford Fld | 111.0 | G | |

VOR TEST FACILITIES (VOT)

SOUTH CAROLINA

VOR RECEIVER CHECKPOINTS

VOR TEST FACILITIES (VOT)

SE, 23 SEP 2010 to 18 NOV 2010

TENNESSEE

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--|------------|--|--------------------------------|-------------------------------|--|
| Hinch Mountain (Crossville Memorial–Whitson Fld) | 117.6/HCH | A/2900 | 336 | 11 | Over metal hangar. |
| | 117.6/HCH | G | 335 | 11.5 | Runup area between taxiway and rwy at center of fld. |
| Holston Mountain (Tri–Cities Rgnl TN/VA) ... | 114.6/HMV | G | 286 | 13.7 | On ramp S of terminal building. |
| Jackson (McKellar–Sipes Rgnl) | 112.0/MKL | | 256 | 0.6 | At south end of ramp at fire station. |
| Nashville (Lebanon Muni) | 114.1/BNA | A/2000 | 082 | 18 | Over midfield. |
| Tulahoma Rgnl/Wm Northern Fld | | A/1800 | 003 | 5.0 | Over Normandy Dam. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---------------------------------------|-------|----------------------|---------|
| Knoxville (McGhee–Tyson) | 112.0 | G | |
| Memphis Intl | 111.0 | G | |
| Nashville Intl | 108.6 | G | |
| Smyrna | 110.2 | G | |

PUERTO RICO

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|------------------------|
| Borinquen (Rafael Hernandez) | 113.5/BQN | G | 271 | 2.2 | On apch end of Rwy 08. |

VIRGIN ISLANDS

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---|
| Saint Thomas (Cyril E. King) | 108.6/STT | G | 118 | 3.5 | On taxiway North of Main ramp. VOR gnd checkpoint unusable. |

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|---|--|---------------------|---|
| ALABAMA | | | |
| Allen Army Heliport | 11 NM; 253° Wiregrass | 12,500 | 1 NM radius. SR-SS weekends and holidays. |
| (c) Bayou La Batre, Roy E. Ray Arpt. | 12 NM; 217° Brookley | 12,500 | Daily SR-SS |
| Bessemer, Old Bessemer Arpt | 16 NM; 057° Brookwood | 10,000 | 1030-SS weekends |
| (c) Cullman, Folsom Fld Arpt. | 36 NM; 001° Vulcan | 14,500 | 3 NM radius. SR-SS Sat-Sun, other times by NOTAM. |
| (c) Dothan, Hatch Army Heliport | 10.3 NM; 290° Wiregrass | 12,500 AGL | 1 NM SR-SS weekends and holidays. |
| (c) Elberta, Horak Arpt. | 11 NM; 268° Sauflay | 14,000 | Daily 0700-1/2 hour after SS. |
| Ellis Drop Zone | 15 NM; 220° Decatur | 1,500 | 0.4 NM radius. Occasional use |
| Eutaw Muni Arpt. | 30 NM; 200° Crimmon | 13,000 AGL | Weekends and holidays |
| Gadsden, Northeast Alabama Rgnl Arpt. . | 3 NM; 230° Gadsden | 14,000 | Weekends and holidays 0900-SS. |
| Harvest, Epps Arpk. | 9 NM; 297° Rocket | 13,500 | Daily SR-SS |
| (c) Hazel Green | 7 NM; 355° Rocket | 14,000 | 7 NM radius. Daily SR-SS. Occasional night use. |
| Headland Muni Arpt | 8 NM; 070° Wiregrass | 15,000 | Weekdays 1200-SS; Sat-Sun, and holidays SR-SS |
| Jones Drop Zone | 6 NM; 276° Rocket | 1,500 | 0.25 NM radius. Occasional use |
| Kilby Drop Zone | 13 NM; 014° Montgomery | 1,500 | 0.2 NM radius. Occasional use |
| Moundville Arpt. | 18 NM; 198° Tuscaloosa | 12,000 AGL | 5 NM radius. 0900-SS on weekends, occasionally weekdays by Notam. |
| Pinson, Industrial Park | 12 NM; 085° Vulcan | 10,500 | 0800-SS Sat-Sun, occasionally weekday and ngt use. |
| Prattville-Grouby Fld Arpt | 17 NM; 300° Montgomery | 2,000 | 10NM radius. For specific times call 334-953-7325. |
| Redstone Drop Zone | 9 NM; 220° Rocket | 1,500 | 0.2 NM radius. Occasional use |
| Renda Drop Zone | 8 NM; 234° Talladega | 1,500 | 0.25 NM radius. Occasional use |
| Tac Runkle Drop Zone | 19 NM; 280° Cairns | 3,500 AGL | Occasional use |
| Tommy Drop Zone | 17 NM; 235° Montgomery | 1,500 | 0.2 NM radius. Occasional use |
| (c) Tuskegee, Moton Fld Muni | 2 NM; 198° Tuskegee | 12,500 | 3 NM radius. Occasionally on weekends. |
| Vincent | 37 NM; 130° Vulcan | 10,000 | 5 NM radius. Weekends 0900-SS. |
| Warrior | 11 NM; 350° Vulcan | 12,500 | Daily SR-SS |
| Weaver, McMinn Arpt | 15 NM; 047° Talladega | 12,500 | 1 NM radius. Daily SR-SS, occasional night use. |
| (c) Wetumpka Muni | 18 NM; 356° Montgomery | 10,000 | Daily SR-SS |
| FLORIDA | | | |
| Arcadia Muni. | 23 NM; 311° Labelle | 15,000 | 5 NM radius. SR-SS daily, occasional ngt use. |
| Avon Park Executive Arpt | 30 NM; 138° Lakeland | 4,000 | 4 NM radius. Daily SR-SS |
| Brandon, Sod Farm | 16 NM; 255° Lakeland | 15,000 | 0830-1830 weekends |
| Chassahowitzka Drop Zone | 38 NM; 010° St. Petersburg | 4,000 | 0.25 NM radius. Occasional use |

PARACHUTE JUMPING AREAS

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|---|---|------------------|---|
| (c) Clewiston, Airglades Arpt | 19 NM; 097° LaBelle | 13,500 | 1 NM radius. Daily SR-SS |
| (c) Coleman, Freeflight Arpt | 24 NM; 155° Ocala | 15,000 | 3 NM radius. Daily SR-SS. |
| (c) Deland Muni-Sidney H Taylor Fld | 17 NM; 210° Ormond Beach | 15,000 | 1 NM radius. SR-SS Sat, Sun, occasionally weekdays. |
| Englewood, Buchan Arpt | 27 NM; 158° Sarasota | 15,000 AGL | 2 NM radius. Sunday 1000-SS |
| Florabama Drop Zone | 16 NM; 216° Saufley | 14,000 | 2 NM radius. Fri-Sun 0830-SS. |
| (c) Homestead General Aviation | 22 NM; 218° Dolphin | 15,000 | 5 NM radius. 24 hrs daily. |
| Jacksonville, Herlong Arpt | 15 NM; 255° Craig | 15,000 | 1 NM radius. Daily SR-SS with prior notification to JAX APP CON. |
| Key West | 1 NM; 095° Key West | 7,000 | 0.2 NM radius. Occasional use. |
| (c) La Belle, Sundance Farms Arpt | 5.4 NM; 245° La Belle | 12,500 | 1 NM radius. Daily SR-SS. |
| (c) Lake Wales Muni | 21 NM; 104° Lakeland | 18,000 | 7 NM radius, 24 hrs daily. Miami Center 127.2 |
| (c) MacDill AFB | 11 NM; 110° St. Petersburg | 10,000 | 0600-1100 Sun. Over Rwy 31 |
| (c) Myakka City | 18 NM; 097° Sarasota | 12,500 | 5 NM radius, 24 hrs daily |
| (c) New Smyrna Beach, Massey Ranch Airpark | 22 NM; 150° Ormond Beach | 15,000 | 1 NM radius SR-SS weekends, occasionally weekdays. |
| (c) Palatka Muni-Lt. Kay Larkin Fld | 36 NM; 079° Gators | 12,500 | 3 NM radius. Daily, SR-SS |
| (c) Pahokee, Palm Beach Co Glades Arpt | at Pahokee | 17,500 | 3 NM radius, 0800-1800 daily. |
| (c) Quincy Muni Arpt | 10 NM; 288° Seminole | 15,000 | Daily SR-SS |
| St. Augustine | 35 NM; 159° Craig | 12,500 | Sat-Sun occasionally weekdays |
| (c) Sebastian Muni | 8 NM; 001° Vero Beach | 14,000 | 2 NM radius. Daily SR-SS. |
| (c) Shell Creek Airpark | 27.5 NM; 347° Lee County | 13,000 | 1 NM radius. SR-SS weekends, holidays. |
| (c) Skydive Live Arpt | 24 NM; 075° Crestview | 13,000 | 3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM. |
| (c) Sugar Loaf Shores Arpt | 13 NM; 071° Key West | 14,000 | 2 NM radius. SR-SS. |
| Sun City | 22 NM; 123° St. Petersburg | 12,500 | |
| (c) Titusville, Arthur Dunn Air Park | 33 NM; 341° Melbourne | 13,500 | 1 NM radius, SR-SS daily. |
| (c) Umatilla Muni Arpt | 29 NM; 327° Orlando | 13,000 AGL | 2 NM radius. SR-SS. Occasional night use. |
| Wakulla Co Arpt | 35 NM; 180° Seminole | 13,500 | 3 NM radius. SR-SS weekends occasionally weekdays. |
| (C) Williston Muni Arpt | 22 NM; 210° Gators | 11,000 | Tallahassee Rgnl Tower 135.8 |
| (c) Zephyrhills Muni | 16 NM; 330° Lakeland | 20,000 | 2.5 NM radius. SR-SS Fri, Sat and Sun. Jacksonville Center 118.6 |
| GEORGIA | | | |
| Bunker Hill Drop Zone | 10 NM; 233° Harris | 8,000 | 1 NM radius. SR-1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft. |
| (c) Cedartown, Polk Co Arpt-Cornelius Moore Fld | 9 NM; 188° Rome | 15,000 | 3 NM radius. SR-SS daily, occasionally nights. |
| Claxton-Evans Co Arpt | 33.6 NM; 276° Savannah | 7,500 | 0900-SS Sat and Sun |
| (c) Dahlonega, Lumpkin County Arpt, Wimpy Drop Zone | 23 NM; 193° Harris | 15,000 | 1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft. |
| Dahlonega Highway 76 Drop Zone | 11 NM; 231° Harris | 3,000 | Occasional use. |
| Fort Benning, Box Spring Drop Zone | 24.5 NM; 116° Columbus | 3,000 | Occasional use. |
| Fort Benning, Eelbeck Drop Zone | 17.5 NM; 131° Columbus | 3,000 | Occasional use. |
| (c) Fort Benning, EuBanks Drop Zone ... | 16 NM; 171° Columbus | 12,500 | Daily 0500-1900 |
| (c) Fort Benning, Fryar Field Drop Zone | 22.5 NM; 168° Columbus | 13,000 | 0.5 NM radius, Continuous. |
| (c) Fort Benning, Gardner Drop Zone | 17 NM; 171° Columbus | 12,500 | Daily 0500-1900 |
| Fort Benning, Lawson AAF (Fort Benning) | 1.8 NM; 046° Lawson | 12,500 | 1 NM radius. Daily SR-SS |
| Fort Benning, Lae Drop Zone | 21 NM; 166° Columbus | 3,000 | Occasional use |
| Fort Benning, Ledo Drop Zone | 14 NM; 090° Lawson | 3,000 | Occasional use |
| Fort Benning, McKenna Drop Zone | 10 NM; 080° Columbus | 3,000 | Occasional use |
| (c) Fort Benning, York Drop Zone | 16 NM; 172° Columbus | 12,500 | Daily 0500-1900 |
| Fort Valley, Miami Valley Farms Arpt | 12 NM; 220° Macon | 14,000 | 1 NM radius, Daily 0900-SS |
| Locust Grove, Mallards Landing Arpt | 17.5 NM; 118° Atlanta | 13,500 | Sat, Sun and holidays SR-SS. Occasional ngt jumps |
| (c) Monroe-Walton Co Arpt | 22 NM; 242° Athens | 13,500 | 5 NM radius. Daily 0800-2100. |
| Plantation Airpark, Moore Drop Zone | 36 NM; 332° Savannah | 1,500 AGL | 1 NM radius. Occasional use. Mass Military jumps from multiple acft. |
| (c) Rome, Richard B. Russell Arpt | 11.3 NM; 349° Rome | 15,000 | 5 NM radius. SR-SS Weekends. |

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|-------------------------------------|---|------------------|--|
| St Marys Arpt..... | 19 NM; 203° Brunswick..... | 12,000 | 2 NM radius. Daily 0700–1859. |
| Thomaston–Upson Co..... | 35 NM; 296° Macon..... | 14,500 | 1 NM radius. Sat–Sun occasionally weekdays. |
| Tifton, Henry Tift Myers, Arpt..... | 1 NM; 090° Tift Myers..... | 15,000 | 5 NM radius. Daily 0700–1800. |
| Waycross–Ware Co Arpt..... | 8 NM; 100° Waycross..... | 12,500 | 1 NM radius. Daily 1000–1600 |
| Wilscott Drop Zone..... | 14 NM; 245° Harris..... | 8,000 | 1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft. |

KENTUCKY

| | | | |
|---|--------------------------------|--------|---|
| Elizabethtown, Addington Fld..... | 12 NM; 285° New Hope..... | 11,000 | 3 NM radius, SR–SS Weekends and noon–SS weekdays. |
| Elkton, Standard Fld..... | 16 NM; 045° Clarksville..... | 12,000 | 5 NM radius. Continuous. |
| (c) Flemingsburg, Fleming Mason Arpt..... | 27 NM; 103° Falmouth..... | 12,500 | 1 NM radius. SR–SS Sat–Sun and holidays. |
| Ft. Campbell, Bastogne Drop Zone..... | 8 NM; 274° Clarksville..... | 3,000 | 0600–2330 Mon–Fri and occasional weekends. Military use. |
| Ft. Campbell, Corregidor Drop Zone..... | 11 NM; 270° Clarksville..... | 3,000 | 0600–2330 Mon–Fri and occasional weekends. Military use. |
| Ft. Campbell, Los Banos Drop Zone..... | 10 NM; 270° Clarksville..... | 3,000 | 0600–2330 Mon–Fri and occasional weekends. Military use. |
| Ft. Campbell, Suckchon Drop Zone..... | 10 NM; 270° Clarksville..... | 3,000 | 0600–2330 Mon–Fri and occasional weekends. Military use. |
| Glasgow Muni Arpt..... | 24 NM; 073° Bowling Green..... | 8,000 | 5 mi radius. SR–SS weekends and holidays |
| (c) Greenville, Muhlenberg Co Arpt..... | 10 NM; 149° Central City..... | 13,500 | 5 mi. radius. Daily SR–SS. |
| | 7 NM; 149° Central City..... | 2,000 | 2 NM radius. Intermittent. Military use. |
| (c) Hopkinsville–Christian Co..... | 14 NM; 352° Clarksville..... | 14,500 | 3 NM radius, 0900–1600 Tue–Fri; occasional weekends. |
| Owensboro, Windy Hollow Drag Strip..... | 6 NM; 205° Owensboro..... | 8,000 | 2 NM radius. 0800–SS Sun, holidays occasionally other times |

NORTH CAROLINA

| | | | |
|---|---------------------------------|------------|--|
| Erwin Arpt..... | 22 NM; 030° Fayetteville..... | 4,500 | 1 NM radius. Sat & Sun afternoons |
| (c) Fayetteville, Southern Comforts Arpt..... | 9 NM; 220 Fayetteville..... | 14,000 | 3 NM radius. Fri–Mon and holidays SR–SS. |
| Greensboro, Southeast Greensboro Arpt..... | 18 NM; 115° Greensboro..... | 12,000 | 1 NM radius. 0800–2000 Sat and Sun. |
| | 8 NM; 339° Liberty..... | 11,000 | 3 NM radius. 0800–1600 Fri–Sun. |
| Greenville..... | 22 NM; 040° Kinston..... | 15,500 | Daily SR–SS. |
| (c) Jonesville, Swan Creek Arpt..... | 27 NM; Barretts Mountain..... | 15,000 | 3 NM radius. SR–SS daily, occasional night. |
| (c) Louisburg, North Raleigh..... | 22 NM; 060° Raleigh–Durham..... | 15,500 | 30 min before SR–30 min after SS daily. Occasional ngt. |
| (c) Luzon Drop Zone..... | 13 NM; 152° Sandhills..... | 17,500 | 0600–1900 Daily. |
| Mackall AAF..... | 11 NM; 150° Sandhills..... | 17,500 | Continuous. |
| (c) Maxton, Laurinburg–Maxton Arpt..... | 26 NM; 250° Fayetteville..... | 13,500 | 0800–1700 Mon–Fri. |
| Mebane, Kimrey Arpt..... | 29 NM; 296° Raleigh/Durham..... | 12,000 | 1 NM radius. 0900–SS Weekends; occasionally other times. |
| Pinebluff..... | 8.75 NM; 143° Sandhills..... | 12,500 | Sat, Sun and holidays. Weekdays on request. |
| (c) PK Airpark..... | 17 NM; 280° Fayetteville..... | 12,500 AGL | Continuous. |
| (c) Rocky Mount..... | 9.5 NM; 285° Tar River..... | 12,500 | Sat, Sun and holidays 0900–SS. |
| Southport, Brunswick Co..... | 27.2 NM; 209° Wilmington..... | 12,000 | 3 NM radius. 0800–2100 daily. |
| Thomasville, Fairgrove Arpt..... | 13 NM; 201° Greensboro..... | 14,000 | Weekends and holidays. |
| (c) Wallace, Henderson Fld..... | 23 NM; 351° Wilmington..... | 15,000 AGL | 3 NM radius. Sat–Sun SR–SS. |
| Washington, Warrenn Fld..... | 27.6 NM; 069° Kinston..... | 14,999 AGL | 2 NM radius. SR–SS daily, occasional night use. |

SOUTH CAROLINA

| | | | |
|-----------------------------------|--------------------------------|------------|---|
| Beaufort County Arpt..... | 38.25 NM; 067° Savannah..... | 10,000 | 1.0 NM radius. Sat, Sun and holidays SR–SS. |
| (c) Chester Catawa Rgnl Arpt..... | 16.5 NM; 223° Fort Mill..... | 13,500 AGL | 1 NM radius. Daily 0800–SS. |
| Clemson– Oconee Co. Arpt..... | 14 NM; 343° Electric City..... | 12,000 | Daily SR–SS. |
| Columbia, Fort Jackson..... | 10 NM; 020° Columbia..... | 10,000 | 1 NM radius. Weekends, occasional weekdays. |

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|---|--|---------------------|---|
| (c) Green Sea Arpt..... | 25 NM; 330° Grand Strand..... | 15,000 | 3 NM radius. Weekends and occasional weekdays SR-SS. |
| (c) Loris, Twin City Arpt..... | 15 NM; 340° Grand Strand..... | 12,000 | Weekends, holidays 0800-SS. |
| (c) North AF Aux Arpt | 15 NM; 186° Columbia | 2,000 | ½ NM radius. Mon-Fri 0800-2200. Military personnel and heavy equipment. |
| St George Arpt..... | 17 NM; 192° Vance..... | 17,900 | SR-1 hr after SS. |
| Timmonsville, Huggins Arpt | 14 NM; 247° Florence | 12,500 | Daily SR-SS. |
| (c) Walterboro, Lowcountry Rgnl Arpt ... | 30.5 NM; 275° Charleston | 12,500 AGL | Weekends. |
| TENNESSEE | | | |
| Campbell Co. | 28.9 NM; 336° Volunteer | 13,500 | 2 NM radius. 0800-one hr byd SS. |
| Chattanooga | 13 NM; 087° Choo Choo | 10,000 | Continuous. |
| Clarksville, Outlaw Fld..... | Over Clarksville..... | 14,000 AGL | 4 NM radius. Daily SR-SS, occasional nghts. |
| Crossville Meml-Whitson Fld..... | 11.5 NM; 335° Hitch Mountain.. | 14,500 | 1 NM radius. Daily SR-1 hr after SS, occasional nights. |
| (c) Dunlap | 30 NM; 335° Choo Choo | 9,000 | 5 NM radius. SR-SS Daily. |
| Fort Campbell, Son Drop Zone..... | 4.1 NM; 302° Clarksville..... | 12,500 | Daily. |
| Livingston Arpt | 13 NM; 212° Livingston | 12,500 | Weekends. |
| (c) Paris, Henry Co. | 44.3 NM; 357° Jacks Creek | 13,500 | 5 NM radius. Daily SR-SS. |
| Sevierville, Seymour Airpark..... | 10 NM; 133° Volunteer..... | 13,500 | 3 NM radius. Weekends SR-SS. |
| (c) Somerville, Wings | 26 NM; 210° McKellar..... | 14,000 AGL | 2 NM radius. Weekends 0700-SS. Occasional ngt jumps. |
| Tullahoma Rgnl Arpt/WM Northern Fld ... | 14.1 NM; 139° Shelbyville | 15,000 | 5 NM radius. SR-SS primarily weekends with occasional nights. |
| Whifferdill..... | 25 NM; 303° Nashville | 11,500 | 2 NM radius. Weekends SR-SS. |
| PUERTO RICO | | | |
| (c) Arecibo, Antonio/Nery/Juarbe Pol Arpt | 25 NM; 105° Borinquen | 12,500 | 0600-1800 weekends & holidays. |
| (c) Humacao Arpt | 20.9 NM; 159° San Juan | 15,000 | 2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS. |
| VIRGIN ISLANDS | | | |
| St. Croix, Ordinance Drop Zone..... | | 2,000 | 0700-1400 Mon-Fri. 5 NM radius from 17°49'N 064°52'W. |
| St. Thomas, Cyril E. King No. 1 | 6.5 NM; 118° St. Thomas | 15,000 | |
| St. Thomas, Cyril E. King No. 2 | 10.4 NM; 110° St. Thomas | 15,000 | |

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The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

ATLANTA SECTIONAL

85th Edition, 26 Aug 2010

OBSTRUCTIONS

23 Sep 2010 Add obst 841' MSL (260' AGL) UC, 32°40'34"N, 85°55'14"W.
Add obst 429' MSL (255' AGL), 32°16'09"N, 87°41'39"W.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 Revise CLEMSON, SC Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Clemson-Oconee County Airport.

Revise PICKENS, SC Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of the Pickens County Airport and within 3.6 miles each side of the 044° bearing from the airport, extending from the 6.5-mile radius to 11 miles northeast of the airport.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

ATLANTA TERMINAL AREA CHART

82nd Edition, 26 Aug 2010

OBSTRUCTIONS

23 Sep 2010 No Major Changes.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

CHARLOTTE SECTIONAL

88th Edition, 29 Jul 2010

OBSTRUCTIONS**29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 2013' MSL (300' AGL) UC, 35°54'29"N, 81°16'14"W.

Add obst 334' MSL (310' AGL) UC, 33°30'50"N, 79°22'40"W.

Add obst 399' MSL (285' AGL) UC, 33°49'32"N, 80°44'48"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 433' MSL (310' AGL), 33°45'34"N, 80°17'09"W.

Add obst 377' MSL (310' AGL), 33°40'23"N, 79°43'57"W.

Add obst 434' MSL (310' AGL), 33°50'08"N, 80°11'20"W.

Add obst 226' MSL (220' AGL), 36°13'42"N, 76°08'05"W.

AIRPORTS**29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010** No Major Changes.**23 Sep 2010** Delete ORANGEBURG NDB, 33°25'05"N, 80°54'21"W.**AIRSPACE****29 Jul 2010** No Major Changes.**23 Sep 2010** Revise SMITHFIELD, NC Class E: That airspace extending upward from 700 feet above the surface within a 6.5 mile radius of the Johnston County Airport and within 2 miles each side of the 023° bearing from the airport extending from the 6.5 mile radius to 10.2 miles northeast of the Johnston County Airport.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

CHARLOTTE TERMINAL AREA CHART

43rd Edition, 29 Jul 2010

OBSTRUCTIONS**29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

CINCINNATI SECTIONAL
84th Edition, 1 Jul 2010**OBSTRUCTIONS****29 Jul 2010** Add obst 2206' MSL (310' AGL), 37°16'09"N, 82°55'58"W.

Add obst 2556' MSL (304' AGL) UC, 38°57'53"N, 80°01'49"W.

Add obst 1190' MSL (317' AGL) UC, 39°06'36"N, 82°41'29"W.

Change obst from 2110' MSL (260' AGL) to 2210' MSL (260' AGL), 36°23'13"N, 84°20'11"W.

23 Sep 2010 Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.

Add obst 1804' MSL (355' AGL), 37°27'37"N, 79°59'39"W.

Add obst 1393' MSL (285' AGL), 36°35'10"N, 80°08'07"W.

Add obst 927' MSL (257' AGL) UC, 36°24'41"N, 79°02'46"W.

Add obst 636' MSL (310' AGL), 36°24'11"N, 77°55'45"W.

Add obst 2052' MSL (315' AGL), 36°49'13"N, 83°19'44"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 1158' MSL (308' AGL) UC, 38°33'10"N, 82°23'38"W.

Add obst 1342' MSL (355' AGL) UC, 39°20'19"N, 78°45'27"W.

Add obst 1509' MSL (255' AGL) UC, 39°42'41"N, 80°07'17"W.

AIRPORTS**29 Jul 2010** No Major Changes.**23 Sep 2010** Delete abandoned arpt symbol, 39°09'00"N, 80°12'00"W.

Delete abandoned arpt symbol, 37°06'00"N, 81°50'00"W.

Delete Kite arpt, 36°31'00"N, 82°44'00"W. Change RP 31 to RP * at GRANT CO arpt, 38°59'00"N, 79°08'00"W.

Delete RP 18 at GREATER PORTSMOUTH RGNL arpt, 38°50'25"N, 82°50'50"W.

NAVAIDS**29 Jul 2010** No Major Changes.**23 Sep 2010** Shutdown AZALEA PARK NDB, 38°00'36"N, 78°31'05"W.

Delete COGAN NDB, 39°05'11"N, 78°04'06"W.

AIRSPACE**29 Jul 2010** No Major Changes.**23 Sep 2010** Revise Mount Airy, NC Class E: That airspace extending upward from 700 feet above the surface within a 9-mile radius of the Mount Airy-Surry County Airport and within 3.9 miles each side of the 353° bearing from the airport extending from the 9-mile radius to 15.3 miles north of the Mount Airy-Surry County Airport.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

CINCINNATI TERMINAL AREA CHART
23rd Edition, 1 Jul 2010**OBSTRUCTIONS****29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

IFR GULF OF MEXICO CENTRAL**1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**29 Jul 2010** Delete W-453.

Add W-148A Beginning at N29 36' 11"- W088 01' 30" to N28 51' 21"- W088 01' 30" to N29 00' 57"- W88 36'10" to N29 08' 46" - W088 45' 36" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25.0' - W088 54' 05.0' THEN 12NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N29 41' 20"-W088 38'33" TO THE POINT OF BEGINNING. Altitude: Surface to but not including 6000MSL; Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM; Weather: VFR-IFR, Controlling Agency: ZHU CNTR/FSS.

Add W-148B Beginning at N29 36' 11"- W088 01' 30" to N28 51' 21"- W088 01' 30" to N29 00' 57"- W88 36'10" to N29 08' 46" - W088 45' 36" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25.0' - W088 54' 05.0' THEN 12NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N29 41' 20"-W088 38'33" TO THE POINT OF BEGINNING. Altitude: 6000MSL to FL600; Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM; Weather: VFR-IFR; Controlling Agency: ZHU CNTR/FSS.

Add W453A Beginning at N30 09'16" - W88 01' 30" to N29 36' 11"-W088 01' 30.0" to N29 42' 51" - W088 49' 30'W Then 3 NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N30 06' 01" - W088 51' 00" to N30 11' 01.0' W088 41' 40.0' THEN 3 NM FROM AND PARALLEL TO THE SHORELINE TO THE POINT OF BEGINNING. Altitude: Surface to but not including 6000 MSL; Time of Use: Intermittent, DAYS, Other Times by NOTAM; Weather: VFR-IFR; Controlling Agency: ZMA CNTR/FSS.

Add W-453B Beginning at N30 09'16" - W88 01' 30" to N29 36' 11"-W088 01' 30.0" to N29 42' 51" - W088 49' 30'W Then 3 NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N30 06' 01" - W088 51' 00" to N30 06' 01" to N30 11' 01.0' W088 41' 40.0' THEN 3 NM FROM AND PARALLEL TO THE SHORELINE TO THE POINT OF BEGINNING. Altitude: 6000 MSL to FL600; Time of Use: Intermittent, DAYS, Other Times by NOTAM; Weather: VFR-IFR, Controlling Agency: ZMA CNTR/FSS.

Add Snake MOA Beginning at N29 42' 51.0"-W088 49' 30" to N29 41' 20.0 - W088 38'33" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25"-W088 54'05.0" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N 29 08' 46" - W088 45' 36".0 to N29 34' 32" - W089 21' 26" to N29 50' 00" W089 15' 00" to N29 56' 15" - W089 09' 00" to N30 06' 00" - W088 51' 00" then 3NM OFFSHORE OF THE CHANDELEUR ISLANDS TO THE POINT OF BEGINNING. Altitude: 6000 MSL to but not including FL180, Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM, Controlling Agency: ZHU CNTR/FSS.

Add Snake Low MOA Beginning at N29 42' 51.0"-W088 49' 30" to N29 41' 20.0 - W088 38'33" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25"-W088 54'05.0" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N 29 08' 46" - W088 45' 36.0 to N29 34' 32" - W089 21' 26" to N29 50' 00" W089 15' 00" to N29 56' 15" - W089 09' 00" to N30 06' 00" - W088 51' 00" then 3NM OFFSHORE OF THE CHANDELEUR ISLANDS TO THE POINT OF BEGINNING. Altitude: 3000MSL to but not including 6000MSL Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM, Controlling Agency: ZHU CNTR/FSS.

23 Sep 2010 No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete BUEKR Waypoint N 29°45' W 91°50'.**8 Apr 2010 – 3 Jun 2010** No Major Changes.**29 Jul 2010** 29 JUL 2010 Delete HOUSTON VERMILLION 120.35 RCAG Site N28 34' 00"- W92 27' 00".**23 Sep 2010** No Major Changes.

IFR GULF OF MEXICO WEST**1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**29 Jul 2010** Change Brenham Muni (11R) to N30 13°10.8" - W096 22°27.85".**23 Sep 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Delete BRENHAM (BNH) NDB 30°13'20.6"N, 96°22'24.6"W.**3 Jun 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change Name SITA to SARITA at HOUSTON RCAG 27°13'16"N, 97°47'56"W.**3 Jun 2010** No Major Changes.**29 Jul 2010** Delete HOUSTON VERMILLION 120.35 RCAG Site N28 34'00" - W92 27'00".**23 Sep 2010** Add South Padre Island AWOS-3 118.375 N26 04'15.96" - W097 27'84".**JACKSONVILLE SECTIONAL****86th Edition, 26 Aug 2010****OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** Delete FOLEY NDB, 29°59'46"N, 83°35'11"W.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** VR 1003 Revised, VR 1066 Revised**MISCELLANEOUS****23 Sep 2010** No Major Changes.

MEMPHIS SECTIONAL
85th Edition, 23 Sep 2010

OBSTRUCTIONS

23 Sep 2010 No Major Changes.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

MEMPHIS TERMINAL AREA CHART
43rd Edition, 23 Sep 2010

OBSTRUCTIONS

23 Sep 2010 No Major Changes.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

MIAMI SECTIONAL
87th Edition, 26 Aug 2010

OBSTRUCTIONS

23 Sep 2010 No Major Changes.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

MIAMI TERMINAL AREA CHART
76th Edition, 26 Aug 2010

OBSTRUCTIONS

23 Sep 2010 No Major Changes.

AIRPORTS

23 Sep 2010 No Major Changes.

NAVAIDS

23 Sep 2010 No Major Changes.

AIRSPACE

23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

NEW ORLEANS SECTIONAL

86th Edition, 3 Jun 2010

OBSTRUCTIONS**3 Jun 2010** No Major Changes.**29 Jul 2010** Add obst 429' MSL (310' AGL), 31°34'24"N, 87°57'06"W.

Add obst 670' MSL (310' AGL), 32°02'25"N, 85°24'42"W.

Add obst 328' MSL (210' AGL), 31°26'25"N, 88°09'19"W.

Add obst 393' MSL (259' AGL), 31°02'34"N, 84°48'11"W.

Add obst 627' MSL (349' AGL), 32°11'34"N, 87°38'49"W.

23 Sep 2010 Add obst 603' MSL (260' AGL), 32°06'42"N, 87°46'49"W.

Add obst 459' MSL (257' AGL) UC, 31°46'12"N, 88°12'19"W.

Add obst 429' MSL (310' AGL) UC, 32°13'17"N, 88°08'52"W.

Add obst 281' MSL (258' AGL), 30°19'23"N, 85°35'43"W.

Add obst 328' MSL (290' AGL) UC, 30°37'43"N, 88°26'25"W.

Add obst 640' MSL (257' AGL), 31°44'38"N, 86°25'20"W.

Add obst 436' MSL (315' AGL), 31°03'21"N, 89°44'52"W.

Add obst 753' MSL (310' AGL), 31°58'34"N, 90°15'53"W.

AIRPORTS**3 Jun 2010 29 Jul 2010** No Major Changes.**23 Sep 2010** BRUNDIDGE arpt abandoned, 31°43'58"N, 85°48'15"W.**NAVAIDS****3 Jun 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****3 Jun 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****3 Jun 2010** No Major Changes.**29 Jul 2010** Add Gulfport, MS MOA-SNAKE beginning at 29°42'51"N, 88°49'30"W to 29°41'20"N, 88°38'33"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the shoreline to 29°08'46"N, 88°45'36"W to 29°34'32"N, 89°21'26"W to 29°50'00"N, 89°15'00"W to 29°56'15"N, 89°09'00"W to 30°06'00"N, 88°51'00"W then 3 NM offshore of the Chandeleur Islands to the point of beginning. Altitude: 6000 MSL to but not including FL 180, Time of use intermittent; sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS MOA-SNAKE LOW beginning at 29°42'51"N, 88°49'30"W to 29°41'20"N, 88°38'33"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the shoreline to 29°08'46"N, 88°45'36"W to 29°34'32"N, 89°21'26"W to 29°50'00"N, 89°15'00"W to 29°56'15"N, 89°09'00"W to 30°06'00"N, 88°51'00"W then 3 NM offshore of the Chandeleur Islands to the point of beginning. Altitude: 3000 MSL to but not including 6000 MSL Time of use: intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-148A beginning at 29°36'11"N, 88°01'30"W to 28°51'21"N, 88°01'30"W to 29°00'57"N, 88°36'10"W to 29°08'46"N, 88°45'36"W then 12 NM from and parallel to the shoreline. to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the Chandeleur Islands to 29°41'20"N, 88°38'33"W to the point of beginning. Altitude: surface to but not including 6000 MSL Time of use: intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-148B beginning at 29°36'11"N, 88°01'30"W to 28°51'21"N, 88°01'30"W to 29°00'57"N, 88°36'10"W to 29°08'46"N, 88°45'36"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the Chandeleur Islands to 29°41'20"N, 88°38'33"W to the point of beginning. Altitude: 6000 MSL to FL 600 time of use intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Delete Gulfport, MS W-453.

Add Gulfport, MS W-453A beginning at 30°09'16"N, 88°01'30"W to 29°36'11"N, 88°01'30"W to 29°42'51"N, 88°49'30"W then 3 nm from and parallel to the Chandeleur Islands to 30°06'01"N, 88°51'00"W to 30°11'01"N, 88°41'40"W then 3 NM from and parallel to the shoreline to point of beginning. Altitude: surface to but not including 6000 MSL time of use intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-453B beginning at 30°09'16"N, 88°01'30"W to 29°36'11"N, 88°01'30"W to 29°42'51"N, 88°49'30"W then 3 NM from and parallel to Chandeleur Islands to 30°06'01"N, 88°51'00"W to 30°11'01"N, 88°41'40"W then 3 NM from and parallel to the shoreline to the point of beginning. Altitude: 6000 MSL to FL 600 time of use intermittent, sunrise to sunset; other times by NOTAM.

Controlling agency HOUSTON ARTCC.

23 Sep 2010 No Major Changes.**MILITARY TRAINING ROUTES****3 Jun 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****3 Jun 2010 – 23 Sep 2010** No Major Changes.

ORLANDO TERMINAL AREA CHART**41st Edition, 26 Aug 2010****OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** No Major Changes.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** No Major Changes.**MISCELLANEOUS****23 Sep 2010** No Major Changes.

PUERTO RICO–VIRGIN ISLAND TERMINAL AREA CHART**36th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 818' MSL (260' AGL) UC, 18°02'29"N, 66°50'24"W.**8 Apr 2010 – 23 Sep 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 23 Sep 2010** No Major Changes.

ST. LOUIS SECTIONAL

82nd Edition, 1 Jul 2010

OBSTRUCTIONS

29 Jul 2010 Add obst 1022' MSL (308' AGL) UC, 39°38'13"N, 87°04'56"W.
 Add obst 883' MSL (383' AGL) UC, 37°21'47"N, 87°30'56"W.
 Add obst 1386' MSL (255' AGL) UC, 37°10'17"N, 84°34'39"W.
 Add obst 990' MSL (258' AGL) UC, 39°53'39"N, 88°43'31"W.
 Add obst 848' MSL (260' AGL) UC, 38°50'53"N, 90°47'56"W.
23 Sep 2010 Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.
 Add obst 941' MSL (278' AGL) UC, 39°23'29"N, 89°51'46"W.
 Add obst 876' MSL (258' AGL) UC, 39°32'44"N, 89°09'24"W.
 Add obst 1109' MSL (310' AGL) UC, 38°50'24"N, 85°29'50"W.
 Add obst 835' MSL (290' AGL) UC, 36°34'39"N, 87°08'32"W.
 Add obst 2115' MSL (265' AGL) UC, 36°08'04"N, 85°04'08"W.
 Add obst 972' MSL (255' AGL), 37°42'39"N, 86°31'35"W.
 Add obst 1049' MSL (255' AGL), 37°06'16"N, 85°26'55"W.

AIRPORTS

29 Jul 2010 Change CTAF 122.9 to 122.8 at CYNTHIANA-HARRISON CO arpt 38°21'58"N, 84°17'00"W.
23 Sep 2010 Delete CAREFERRE ACRES arpt, 39°10'59"N, 87°07'34"W.
 Delete ARRAS RLA arpt, 39°20'17"N, 90°10'41"W.
 Change CTAF 122.8 to 123.05 at ALEXANDRIA arpt, 40°13'57"N, 85°38'15"W.
 Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON CO arpt, 38°21'58"N, 84°17'00"W.

NAVAIDS

29 Jul 2010 Delete DYERSBURG NDB, 35°59'42"N, 89°24'20"W.
23 Sep 2010 Delete NORTH VERNON NDB, 39°02'59"N, 85°36'03"W.
 Delete GENEVA NDB, 37°48'11"N, 87°46'14"W.

AIRSPACE

29 Jul 2010 Revise MARION, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at lat. 37°53'40" N., long. 88°48'35" W.; to lat. 37°56'25" N., long. 89°02'40" W.; to lat. 37°58'45" N., long. 89°20'25" W.; to lat. 37°47'25" N., long. 89°26'00" W.; to lat. 37°42'10" N., long. 89°24'00" W.; to lat. 37°40'46" N., long. 89°20'17" W.; to lat. 37°34'56" N., long. 89°20'25" W.; to lat. 37°34'48" N., long. 89°10'21" W.; to lat. 37°37'05" N., long. 89°10'18" W.; to lat. 37°32'50" N., long. 88°59'00" W.; to lat. 37°42'35" N., long. 88°52'15" W.; to the point of beginning.
 Revise MANILA, AR Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Manila Municipal Airport.
23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

29 Jul 2010 No Major Changes.
23 Sep 2010 Add SULLIVAN, IN. Restricted Area, R-3405. Beginning at 39°07'41"N, 87°22'02"W; to 39°07'41"N, 87°21'29"W; to 39°07'39"N, 87°21'29"W; to 39°07'39"N, 87°21'26"W; to 39°07'41"N, 87°21'25"W; to 39°07'41"N, 87°21'12"W; to 39°07'00"N, 87°21'08"W; to 39°07'00"N, 87°21'46"W; to 39°06'36"N, 87°21'47"W; to 39°06'36"N, 87°22'03"W; to the point of beginning. Designated altitudes. Surface up to and including 1,600 feet MSL. Times of Designation. By NOTAM 24 hours in advance. Controlling Agency. FAA, Terre Haute ATCT.
 Revise CRANE, IN. Restricted Area R-3404. That airspace within a 1 NM radius of 38°49'30"N, 86°50'08"W. Designated altitudes. Surface to and including 4,100 feet MSL. Time of designation. Sunrise to sunset, daily from May 1 through and including November 1. Other times by NOTAM 24 hours in advance. Controlling agency. FAA, Terre Haute ATCT.

MILITARY TRAINING ROUTES

29 Jul 2010 – 23 Sep 2010 No Major Changes.

MISCELLANEOUS

29 Jul 2010 – 23 Sep 2010 No Major Changes.

TAMPA TERMINAL AREA CHART
41st Edition, 26 Aug 2010**OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** No Major Changes.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** No Major Changes.**MISCELLANEOUS****23 Sep 2010** No Major Changes.

U.S. GULF COAST VFR CHART
24th Edition, 22 Oct 2009**OBSTRUCTIONS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add LCHCB IFR Waypoint, 29°31'39"N, 93°00'00"W.

Add LCHLB IFR Waypoint, 29°32'11"N, 93°20'00"W.

Add LCHRB IFR Waypoint, 29°31'04"N, 92°40'00"W.

Add LLACB IFR Waypoint, 29°30'31"N, 92°00'00"W.

Add LLALB IFR Waypoint, 29°30'49"N, 92°20'00"W.

Add LLARB IFR Waypoint, 29°30'10"N, 91°43'49"W.

8 Apr 2010 – 23 Sep 2010 No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 23 Sep 2010** No Major Changes.

WASHINGTON SECTIONAL
88th Edition, 29 Jul 2010**OBSTRUCTIONS****29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 412' MSL (230' AGL), 38°22'46"N, 77°25'07"W.

Add obst 723' MSL (270' AGL) UC, 39°45'39"N, 76°01'48"W.

Add obst 636' MSL (310' AGL), 36°24'11"N, 77°55'45"W.

Add obst 226' MSL (220' AGL), 36°13'42"N, 76°08'05"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 1342' MSL (355' AGL) UC, 39°20'19"N, 78°45'27"W.

AIRPORTS**29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010** No Major Changes.**23 Sep 2010** Shutdown AZALEA PARK NDB, 38°00'37"N, 78°31'05"W.

Delete COGAN NDB, 39°05'11"N, 78°04'07"W.

AIRSPACE**29 Jul 2010** No Major Changes.**23 Sep 2010** Change PHILADELPHIA Class B freq from 126.6 to 133.875**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

| FACILITY NAME | CHART & PANEL |
|--|-----------------|
| Frankfort, IL (LL40) Chicago App/Dep Con 133.1 285.6 | L-28H |
| Glasgow Industrial, MT (07MT) Salt Lake Center App/Dep Con 126.85 305.2 | H-1E, 2F, L-13D |
| USAF Academy Bullseye Aux Airstrip, CO (CO90) ASOS 118.325 | L-10F |
| West Kentucky Airpark, KY (5KY3) Memphis Center App/Dep Con 133.65 292.15 | L-16I |
| William P Gwinn, FL (06FA) Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z) Gnd Con 121.65 279.25 | H-8I, L-23C |

CANADA

| FACILITY NAME | CHART & PANEL |
|---|-------------------|
| Abbotsford, BC (CYXX) ATIS 119.8 (1500-0700Z) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z) Gnd Con 121.8 MF 119.4 295.0 (0700-1500Z) (Shape irregular to 4500') | H-1B, L-12F |
| Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9 | H-11B |
| Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500' No ground station) | L-14I |
| Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS) AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025 | H-11B, L-31D |
| Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65 | L-31C |
| Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25 | L-32J |
| Boundary Bay, BC (CZBB) ATIS 125.5 (1500-0700Z) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z) Gnd Con 124.3 MF 118.1 (0700-1500Z to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500') | H-1B, L-1E |
| Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1 | L-31D |
| Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') | H-2H |
| Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27 | L-31D |
| Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) Montreal Center App/Dep Con 134.675 | L-32G |
| Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') | L-32G |
| Burlington Airpark, ON (CZBA) Toronto Center App/Dep Con 119.3 253.1 | L-31D |
| Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') | H-1C |
| Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 | H-10G, 11B, L-31D |
| Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') | H-11E, L-32J |
| Chatham-Kent, ON (CNZ3) Cleveland Center App/Dep Con 132.25 | H-10G, L-30G |

| FACILITY NAME | CHART & PANEL |
|--|-------------------|
| Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02 | H-11B, L-31D |
| Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1 | L-32G |
| Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100') | H-1C |
| Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2 | H-11E, L-32J |
| Digby, NS (CYID) Moncton Center App/Dep Con 123.9 | L-32J |
| Downsview, ON (CYZD) Toronto Center App/Dep Con 133.4 MF 126.2 (1300-2300Z†, 3 NM to 1700') | H-11B, L-31E |
| Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35 | L-32H |
| Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6 | H-11B |
| Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4 | L-31C |
| Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9 | L-14H |
| Fredericton Intl, NB (CYFC) ATIS 127.55 (1045-0245Z†, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045-0245Z†) Gnd Con 121.7 (1045-0245Z†) MF 119.0 (0245-1045Z†, 5 NM to 3500') | H-11E, L-32I |
| Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3 | H-11B, L-31D |
| Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z†) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clnc Del 128.025 283.9 | H-11E, L-32J |
| Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475 | L-31E |
| Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1 | H-11E, L-32J |
| Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 Apron Advisory 122.125 | H-11E, L-32J |
| Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 | H-10H, 11B, L-11B |
| Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z†) MF 122.5 (1115-0400Z† 5 NM to 3300') | H-11C, L-31E, 32F |
| Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z†) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z†) Gnd Con 121.8 MF 126.0 (0400-1200Z† 5 NM to 4000') | H-11B, L-31D |
| Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 | L-32G |
| La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 | H-11C |
| Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900') | L-1E |

| FACILITY NAME | CHART & PANEL |
|--|---------------------------|
| Leamington, ON (CLM2) Cleveland Center App/Dep Con 132.45 | L-30F |
| Lethbridge, AB (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000') | H-1D |
| Lindsay, ON (CNF4) Toronto Center App/Dep 134.25 | L-31E, L-32F |
| Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9 | L-32J |
| London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000') | H-10G, 11B, L-30G, 31D |
| Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9 | L-31C |
| Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57 | L-32G |
| Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.) | L-32G |
| Medicine Hat, AB (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400') | H-1D |
| Midland/Huronía, ON (CYEE) Toronto Center App/Dep 124.025 | L-31D |
| Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7 | H-11E, L-32J |
| Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075 | H-11E, L-32J |
| Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57 | L-32G |
| Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 | H-11C, 12K, L-32G |
| Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 (W-NW-NE) 268.3 VFR Advisory 134.15 | H-11C, 12K, L-32G |
| Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 | H-11C, L-32G |
| Muskoka, ON (CYQA) AWOS 124.575 Timmins Radio App/Dep Con 122.3 MF 122.3 (5 NM to 3900') | H-11B, L-31D |
| Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to 2500') | H-1B, L-1E |
| North Bay, ON (CYYB) ATIS 124.9 (1130-0330Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') | H-11B, L31D |
| Oshawa, ON (CYYO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000') | L-31E |

| FACILITY NAME | CHART & PANEL |
|---|-------------------|
| Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 128.175 | L-31E, 32F |
| Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7 | H-11C, L-32G |
| Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Cinc Del 119.4 Ottawa Dep Con 128.175 | L-11C |
| Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep 132.575 290.6 | L-31D |
| Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0 | L-30F |
| Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR) | H-11C, L-31E, 32F |
| Penticton, BC (CYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100') | H-1B |
| Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25 | H-11B, L-31E, 32F |
| Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2 | H-1D |
| Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500') | L-1E |
| Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0 | H-11D, L-32H |
| Riviere Du Loup, QC (CYRI) AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6 | H-11D |
| Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000') | H-11B |
| Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400') | H-11E, L-32J |
| Sarnia (Chris Hadfield), ON (CYZR) AWOS 119.125 Toronto Center App/Dep Con 134.375 | H-10G, 11B, L-30F |
| Sault Ste Marie, ON (CYAM) ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 (1300-0100Z†) MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000') | H-2K, L-31B |
| Sherbrooke, QC (CYAM) AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') | H-11D, L-32H |
| South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275 | L-31E, 32F |
| Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8 | H-2H |

| FACILITY NAME | CHART & PANEL |
|--|-------------------|
| Springwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025 | L-31D |
| St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300') | H-10H, 11B, L-31E |
| St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9 | L-32H |
| St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL) | H-32H, L-11D |
| St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7 | L-32G |
| Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000') | H-31B, 10G, L-31D |
| Summerside, PE (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8 | H-11E, L-32J |
| Thunder Bay, ON (CYQT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡) App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000') | H-2J, L-14J |
| Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000') | H-11B |
| Toronto/Buttonville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z‡) Toronto Trml App/Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 (1200-0400Z‡) MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500') | L-31E |
| Toronto/Billy Bishop Toronto City Airport, ON (CYYZ) ATIS 133.6 (1130-0400Z‡) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7 | L-31E |
| Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 119.1 121.65 121.9 Clnc Del 121.3 (1200-0400Z‡) | H-11B, L-31D |
| Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 | H-11C, L-31E, 32F |
| Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 | H-11C, L-31E, 32F |
| Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') | H-11C, L-32H |
| Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000') | H-11B |
| Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4 | H-1B, L-1E |

| FACILITY NAME | CHART & PANEL |
|--|---------------|
| Victoria Intl, BC (CYYJ) ATIS 118.8 (1400-0800Z‡) App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Clnc Del 126.4 (1400-0800Z‡) | H-1B, L-1E |
| Victoriaville, QC (CSR3) Montreal Center App Con 132.35 | L-32H |
| Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3 | L-32J |
| Warton, ON (CYVV) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700') | H-11B, L-31D |
| Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3 | H-10G, L-8J |
| Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100') | H-11E, L-32I |

MEXICO

| FACILITY NAME | CHART & PANEL |
|--|----------------|
| Abraham Gonzalez Intl (MMCS) Juarez App Con 119.9 Juarez Tower 118.9 | H-4K, L-6F |
| Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6 | H-7B, L-20G |
| Durango Intl (MMDO) ATIS 132.1 Tower 118.1 Durango Info 122.3 | H-7A |
| General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tijuana Info 132.1 | H-4H, L-4H |
| General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8 | H-7B, L-20H |
| General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9 | H-7B, L-20G |
| General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4 | L-6I |
| General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 | H-4H, L-4J, 5A |
| General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 | H-7C, L-21A |
| Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 | H-7B |
| Quetzalcoatl Intl/Nuevo Laredo Intl (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 | H-7B, L-20G |
| Torreon Intl (MMTC) App Con 119.6 Tower 118.5 | H-7A |





In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.






NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS


Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0"  beside the name.

A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★. To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

| <u>KEY MIKE</u> | <u>FUNCTION</u> |
|--------------------------|---|
| 7 times within 5 seconds | Highest intensity available |
| 5 times within 5 seconds | Medium or lower intensity (Lower REIL or REIL-off) |
| 3 times within 5 seconds | Lowest intensity available (Lower REIL or REIL-off) |

CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365
Orig 00365 Date of latest change

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

10210

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways



Hard Surface



Other Than Hard Surface

Stopways, Taxiways,
Parking Areas,
Water Runways

Displaced Threshold



Closed Runway



Closed Taxiway



Under Construction

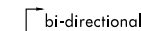


Metal Surface

ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM



bi-directional



Jet Barrier

REFERENCE FEATURES

| | |
|-----------------------|---|
| Buildings..... | ■ |
| Tanks..... | ● |
| Obstructions..... | ▲ |
| Airport Beacon #..... | ☆ |
| Runway..... | ▼ |
| Radar Reflectors..... | ▲ |
| Control Tower #..... | ■ |
| Hot Spot | ○ |

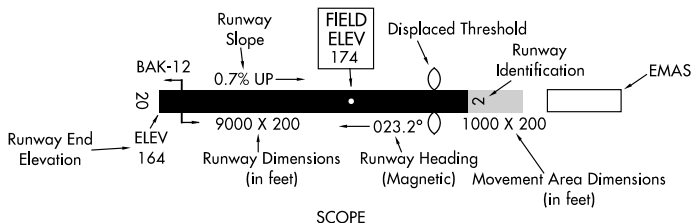
When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

| CITY/AIRPORT | HOT SPOT | DESCRIPTION |
|--|----------|--|
| ALABAMA | | |
| MONTGOMERY | | |
| MONTGOMERY RGNL (DANNELY FIELD) (MGM) | HS 1 | Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to Rwy 10–28. |
| | HS 2 | Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10–28 at Twy A5. |
| TUSCALOOSA | | |
| TUSCALOOSA RGNL (TCL) | HS 1 | Unusually placed Rwy 29 hold line just beyond Twy F. |
| FLORIDA | | |
| DAYTONA BEACH | | |
| DAYTONA BEACH INTL (DAB) | HS 1 | Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance. |
| HOLLYWOOD | | |
| NORTH PERRY (HWO) | HS 1 | Southbound on Twy D for Rwy 27R departures—Pilots miss the turn onto Twy P and enter the rwy. |
| | HS 2 | The hold line for Rwy 36L is also the hold line for Rwy 09R. |
| | HS 3 | Acft taxiing on Twy L westbound to depart on Rwy 18R–36L, Twy L crosses the apch end of Rwy 36R. Pilots should obtain clearance from ground ctl prior to crossing Rwy 36R. |
| MIAMI | | |
| MIAMI INTL, FL (MIA) | HS 1 | Short taxi across twys to rwy. |
| | HS 2 | Short taxi across twys to rwy. |
| | HS 3 | Rwy 27 and Rwy 30 wrong rwy departure risk. |
| | HS 4 | Short twy between rwys. |
| ORLANDO | | |
| ORLANDO SANFORD INTL (SFB) | HS 1 | Rwy 09C APCH hold (Rwy 09C APCH) enroute to Twy C. |
| | HS 2 | The hold line for Rwy 09R on Twy R northbound is placed immediately adjacent to Twy S after crossing Rwy 36 and turning right on Twy R. |
| STURT | | |
| WITHAM FIELD (SUA) | HS 1 | Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.) |
| | HS 2 | Rwy 12 and Twy A1. |

GEORGIA

ATLANTA

HARTSFIELD–JACKSON
ATLANTA INTL (ATL)

HS 1

Intersections of Twy C and Twy D at Rwy 08L–26R. Hold short line is only 250' after exiting the FBO ramp. Rwy hold bar is canted which peaks towards the twy.

HS 2

Intersections of Twy C and Twy D at Rwy 08R–26L. Caution transitioning between the parallel rwys. Rwy hold bar is canted which peaks towards the twy. Rwy hold short line is only 380' away after exiting Rwy 08L–26R and 70' south of the Twy B centerline.

HS 3

Intersection of Twy H at Rwy 08R–26L. Acft travelling westbound for the Twy V end-around, mistakenly turn southbound on Twy H and enter Rwy 08R–26L.

HS 4

Intersection of Twy D at Rwy 09L–27R. Acft southbound on Twy D fail to turn on Twy L and Twy M and enter Rwy 09L–27R. Acft crossing Rwy 09L–27R at Twy D southbound to Twy K must turn 45 degrees left immediately after crossing the rwy hold bar.

AUGUSTA

AUGUSTA RGNL AT BUSH FLD (AGS)

HS 1

Intersection of Twy E and Rwy 17–35.

KENTUCKY

LEXINGTON

BLUE GRASS (LEX)

HS 1

Rwy 27 apch hold occurs prior to Rwy 22 hold line, and only applies when instructed by ATC.

LOUISVILLE

BOWMAN FIELD (LOU)

HS 1

Acft operating near Rwy 06–24, Rwy 15–33 at midfield are in close proximity to intersecting/crossing rwy and twys.

PADUCAH

BARKLEY RGNL (PAH)

HS 1

Rwy 14–32 at Twy F: Short taxi risk after turning on Twy F.

HS 2

Rwy 04–22 at Twy C: Rwy confusing as another twy.

HS 3

Rwy 04 at the end of Twy W South: Short taxi after the turn.

NORTH CAROLINA

CHARLOTTE

CHARLOTTE/DOUGLAS INTL (CLT)

HS 1

Confusing intersection due to convergence of Twy R, Twy A, Twy C and Twy C9, along with grass island.

HS 2

Pilots exiting Rwy 18C–36C on Twy S for either Twy E or Twy F mistakenly turn left on Twy E5 and reenter the rwy.

RALEIGH/DURHAM

RALEIGH–DURHAM INTL (RDU)

HS 1

Intersection of Rwy 5R–23L and Twy C.

TENNESEE

KNOXVILLE

MC GHEE TYSON (TYS)

HS 1

Holding position marking for full length of Rwy 23L just beyond Twy A8 and Twy A.

HS 2

Ramp exit Twy R5 short distance from Twy A and Rwy 05R–23L. Pilots miss turn onto Twy A.

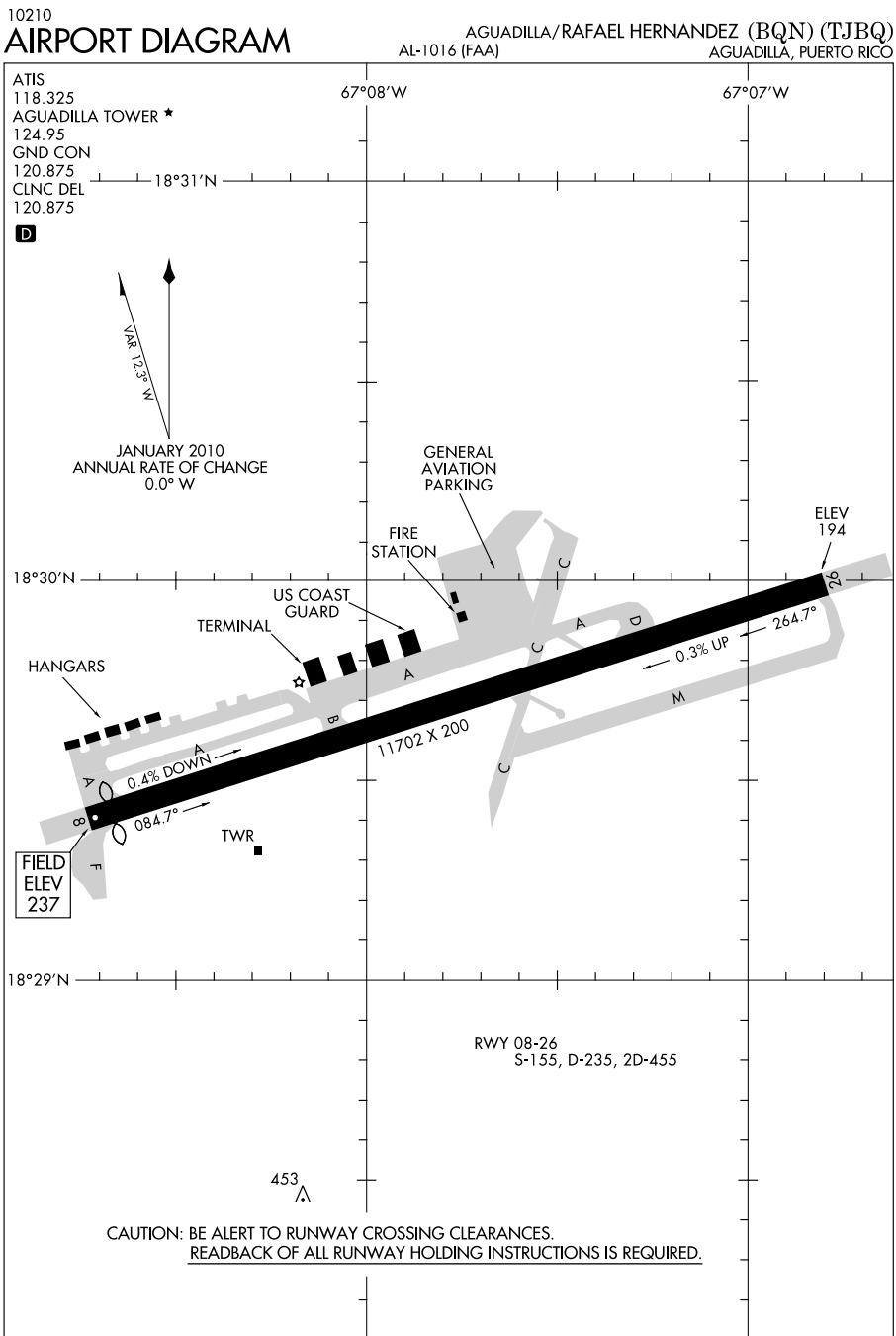
HS 3

Ramp exit Twy R4 short distance from Twy A and Rwy 05R–23L. Pilots miss turn onto Twy A.

HS 4

Acft taxiing on Twy B4 southeast bound sometime fall to hold short of Rwy 23L.

AIRPORT DIAGRAM



AIRPORT DIAGRAM

10210

AGUADILLA, PUERTO RICO
AGUADILLA/RAFAEL HERNANDEZ (BQN) (TJBQ)

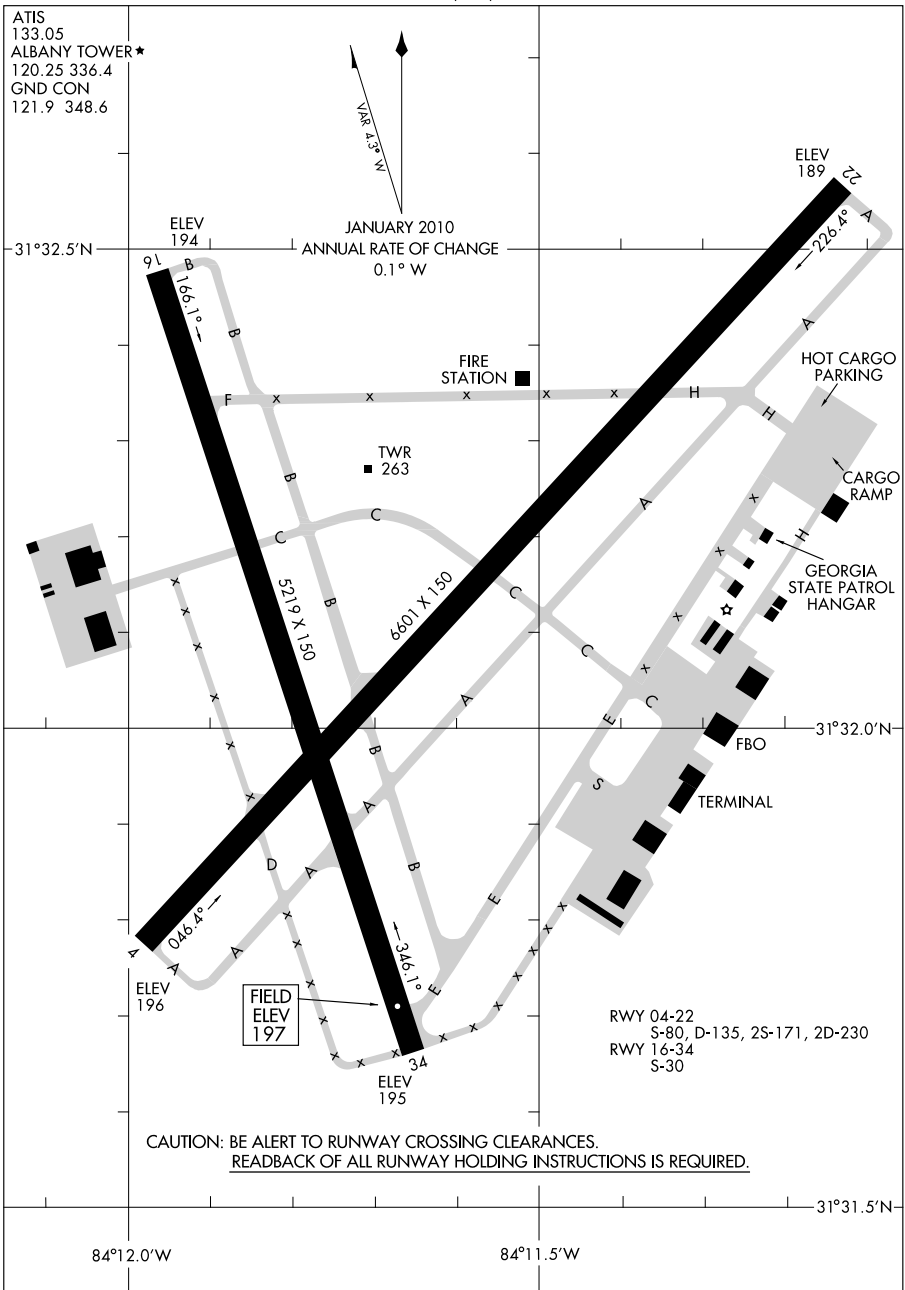
10266

AIRPORT DIAGRAM

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

AL-8 (FAA)

ALBANY, GEORGIA



AIRPORT DIAGRAM

10266

ALBANY, GEORGIA

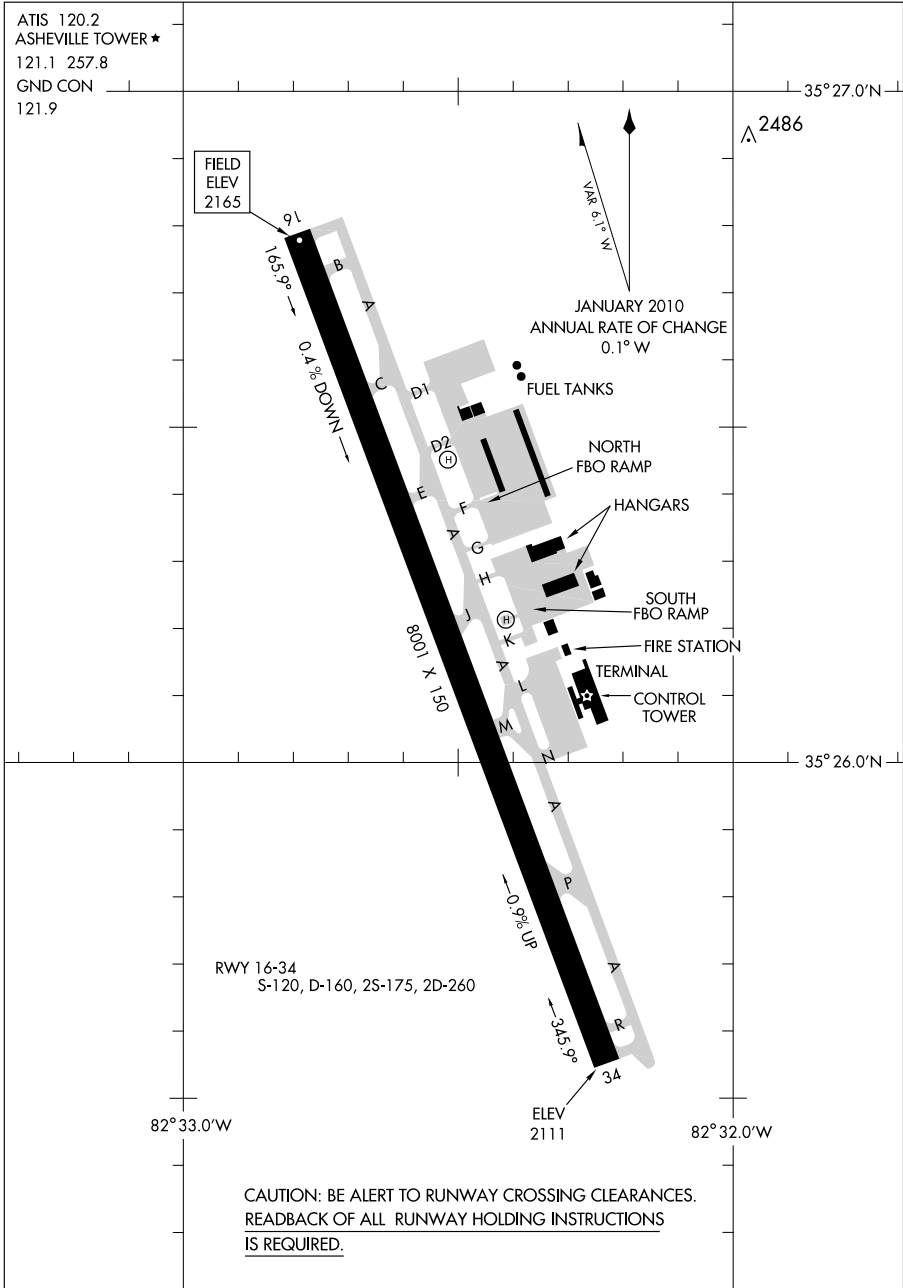
ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-5061 (FAA)

ASHEVILLE RGNL (AVL)
ASHEVILLE, NORTH CAROLINA

AIRPORT DIAGRAM

10210

ASHEVILLE, NORTH CAROLINA
ASHEVILLE RGNL (AVL)

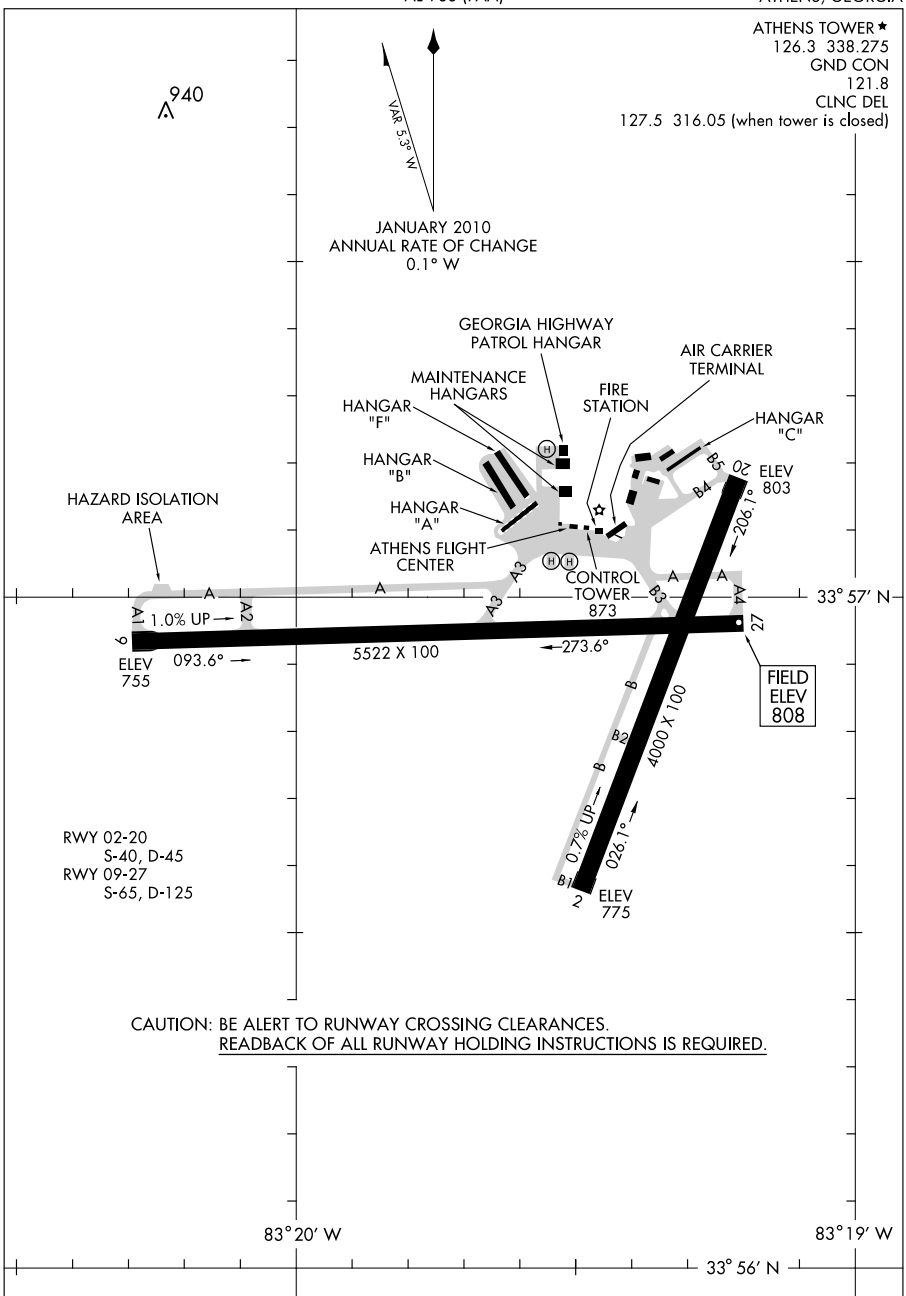
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

ATHENS/ BEN EPPS (AHN)

ATHENS, GEORGIA



AIRPORT DIAGRAM

10210

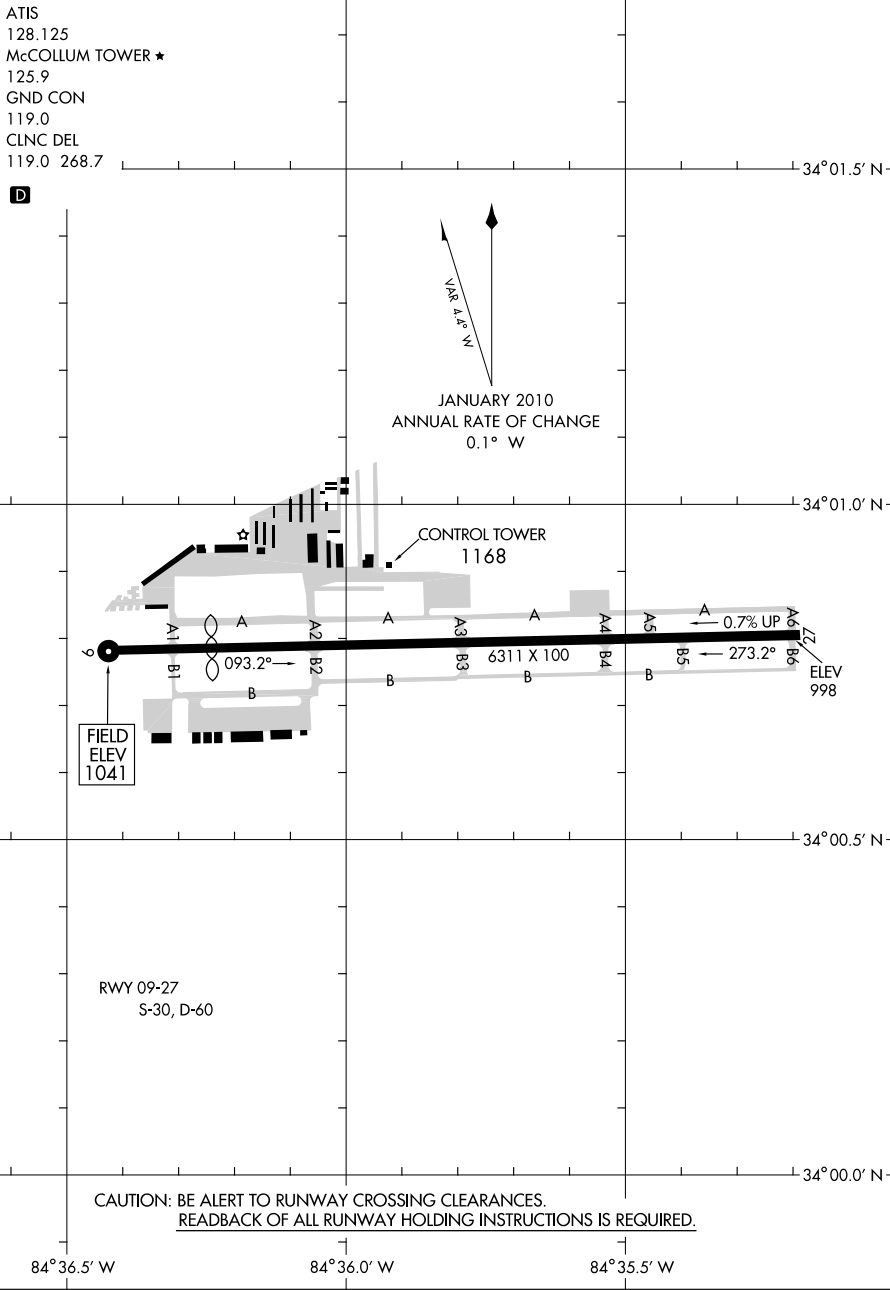
ATHENS, GEORGIA

ATHENS/ BEN EPPS (AHN)

SE. 23 SEP 2010 to 18 NOV 2010

10210
AIRPORT DIAGRAM

ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)
AL-6424 (FAA)
ATLANTA, GEORGIA



AIRPORT DIAGRAM
10210

ATLANTA, GEORGIA
ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)

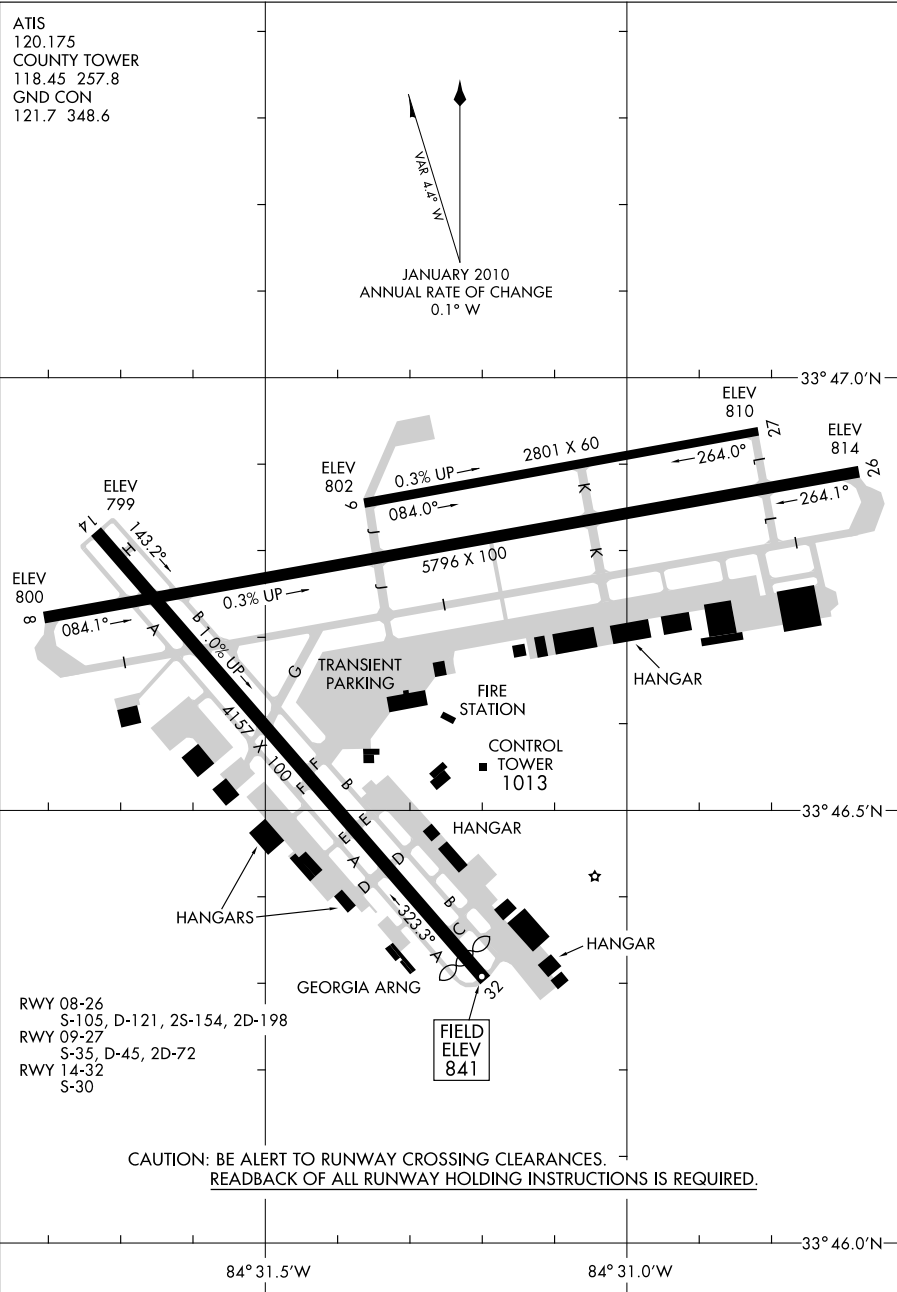
ATLANTA, GEORGIA

ATLANTA, GEORGIA
ATLANTA/DEKALB-PEACHTREE (PDK)

SE, 23 SEP 2010 to 18 NOV 2010

10210
AIRPORT DIAGRAM

ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)
AL-745 (FAA)
ATLANTA, GEORGIA



AIRPORT DIAGRAM
10210

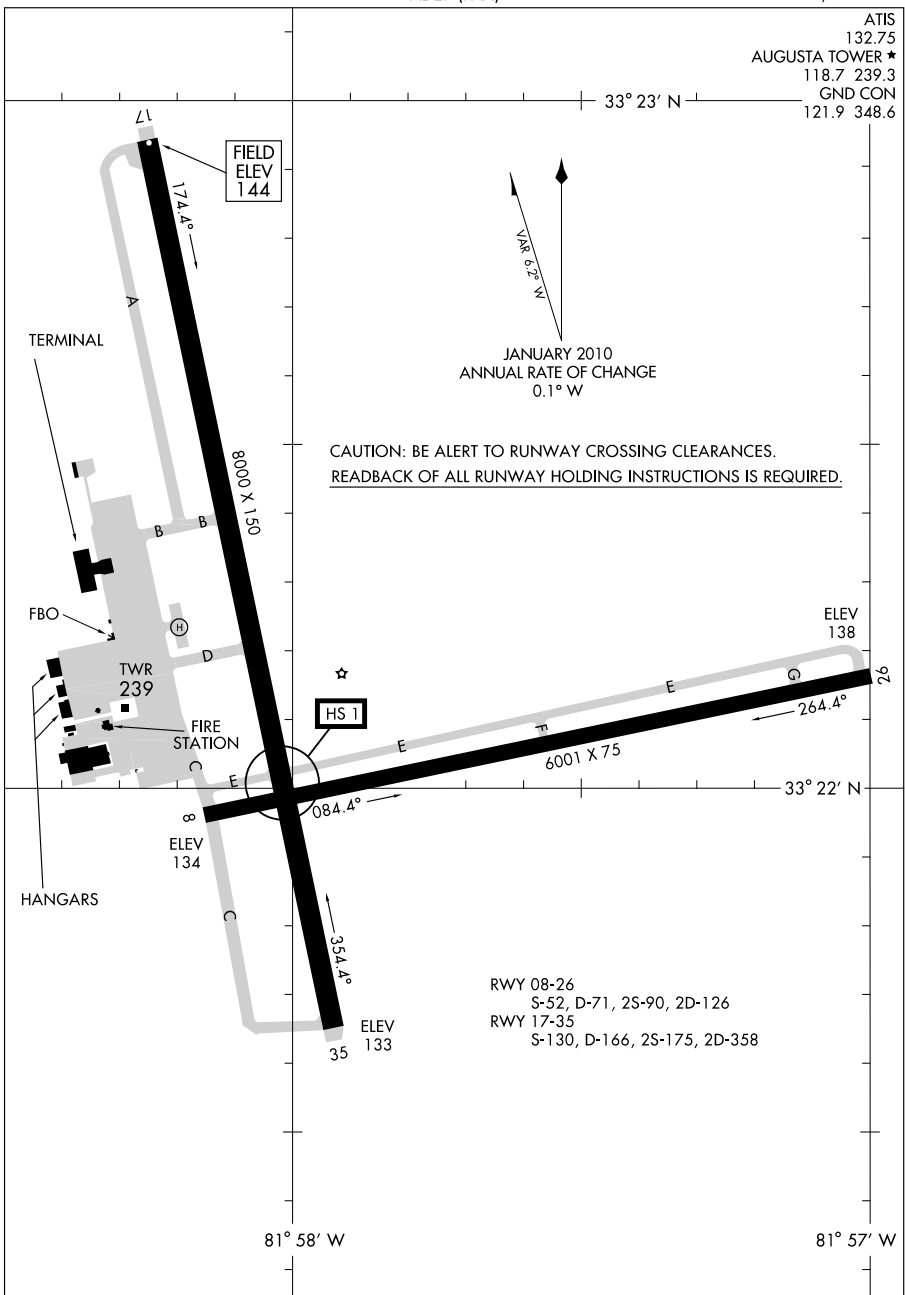
ATLANTA, GEORGIA
ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)

AIRPORT DIAGRAM

AL-27 (FAA)

AUGUSTA RGNL AT BUSH FIELD (AGS)

AUGUSTA, GEORGIA



AIRPORT DIAGRAM

AUGUSTA, GEORGIA

AUGUSTA RGNL AT BUSH FIELD (AGS)

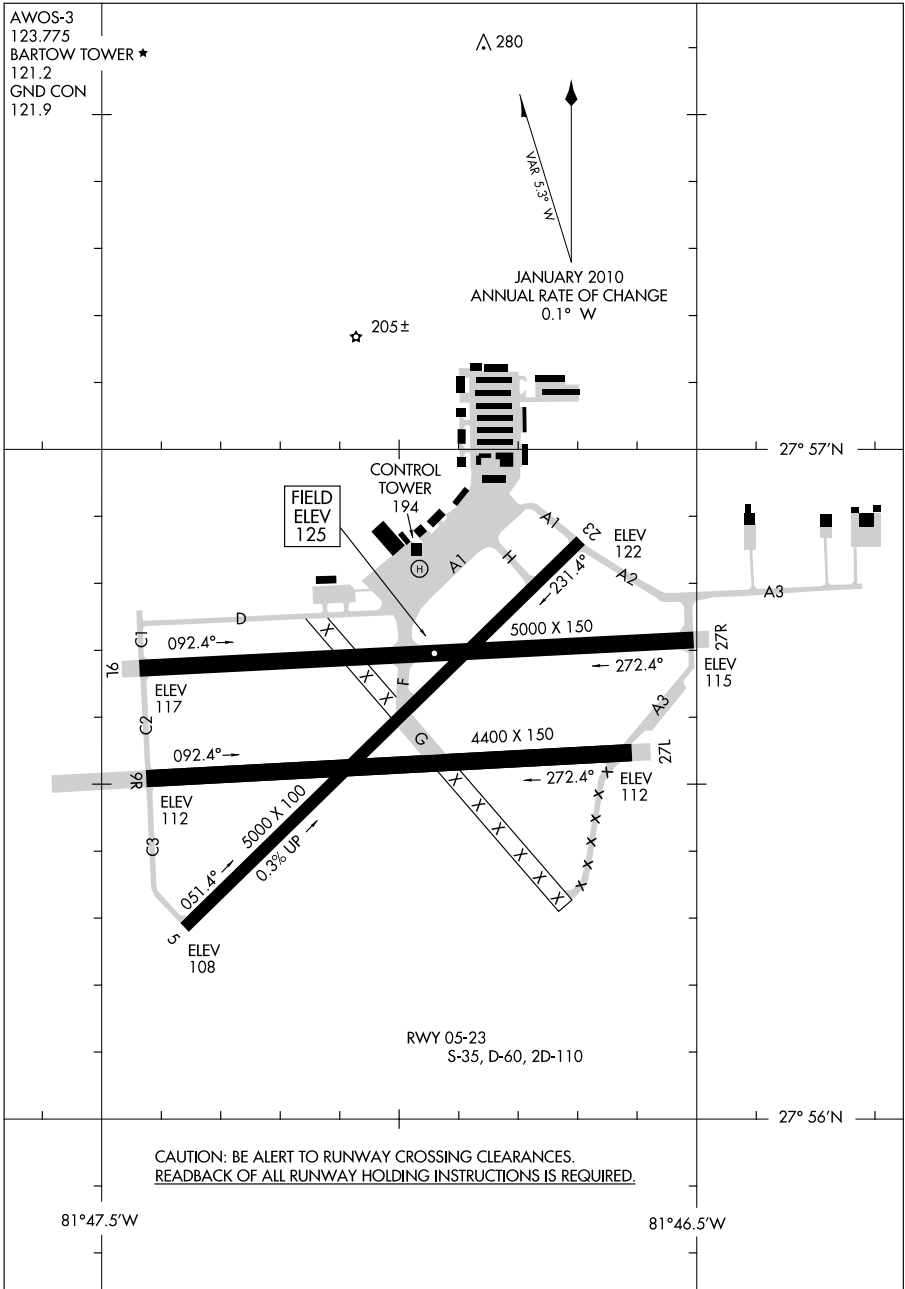
10210

AIRPORT DIAGRAM

AL-5838 (FAA)

BARTOW MUNI (BOW)

BARTOW, FLORIDA



AIRPORT DIAGRAM

BARTOW MUNI (BOW)

BARTOW, FLORIDA

10210

SE. 23 SEP 2010 to 18 NOV 2010

10098

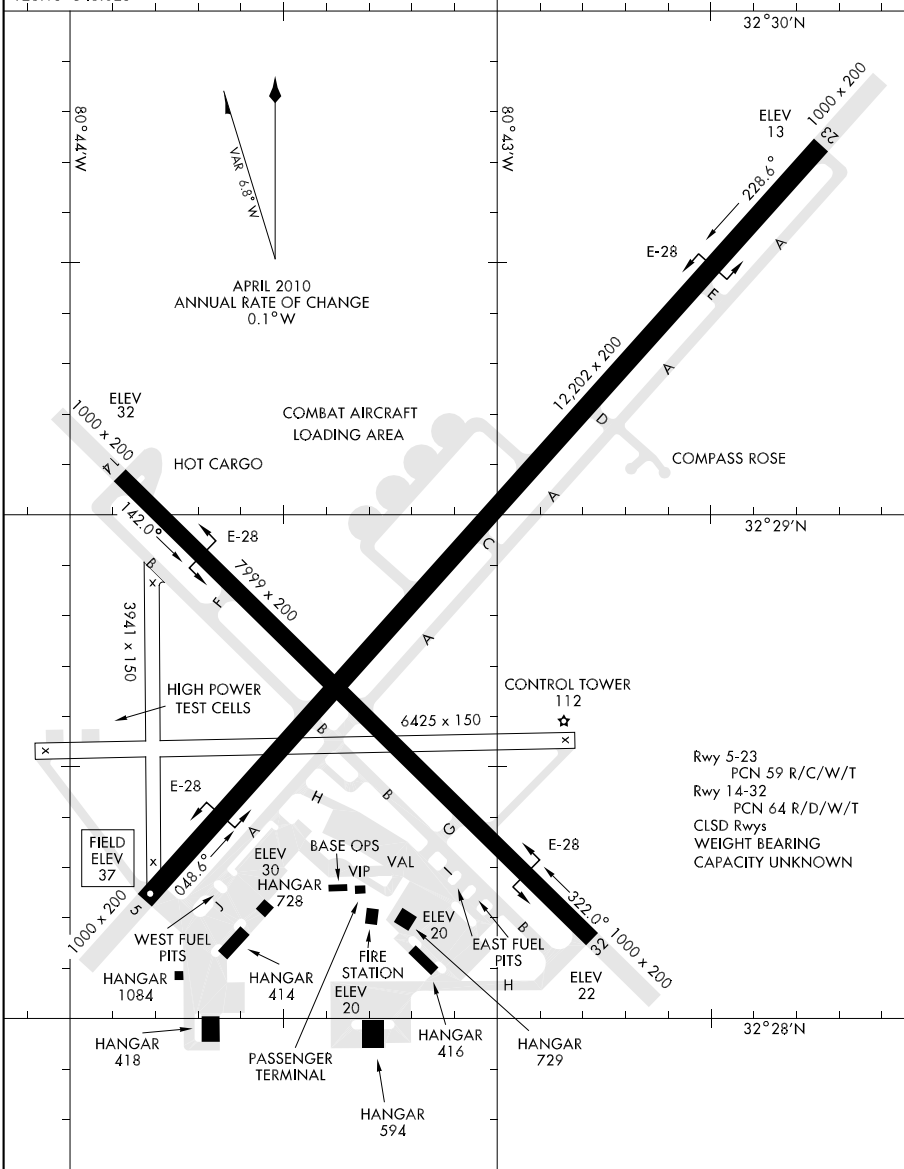
AIRPORT DIAGRAM

AFD-916 [USN]

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

BEAUFORT, SOUTH CAROLINA

ATIS ★ 256.15
 BEAUFORT TOWER ★
 119.05 342.875
 GND CON
 128.15 348.625
 CLNC DEL
 128.15 348.625



AIRPORT DIAGRAM

BEAUFORT, SOUTH CAROLINA

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

SE. 23 SEP 2010 to 18 NOV 2010

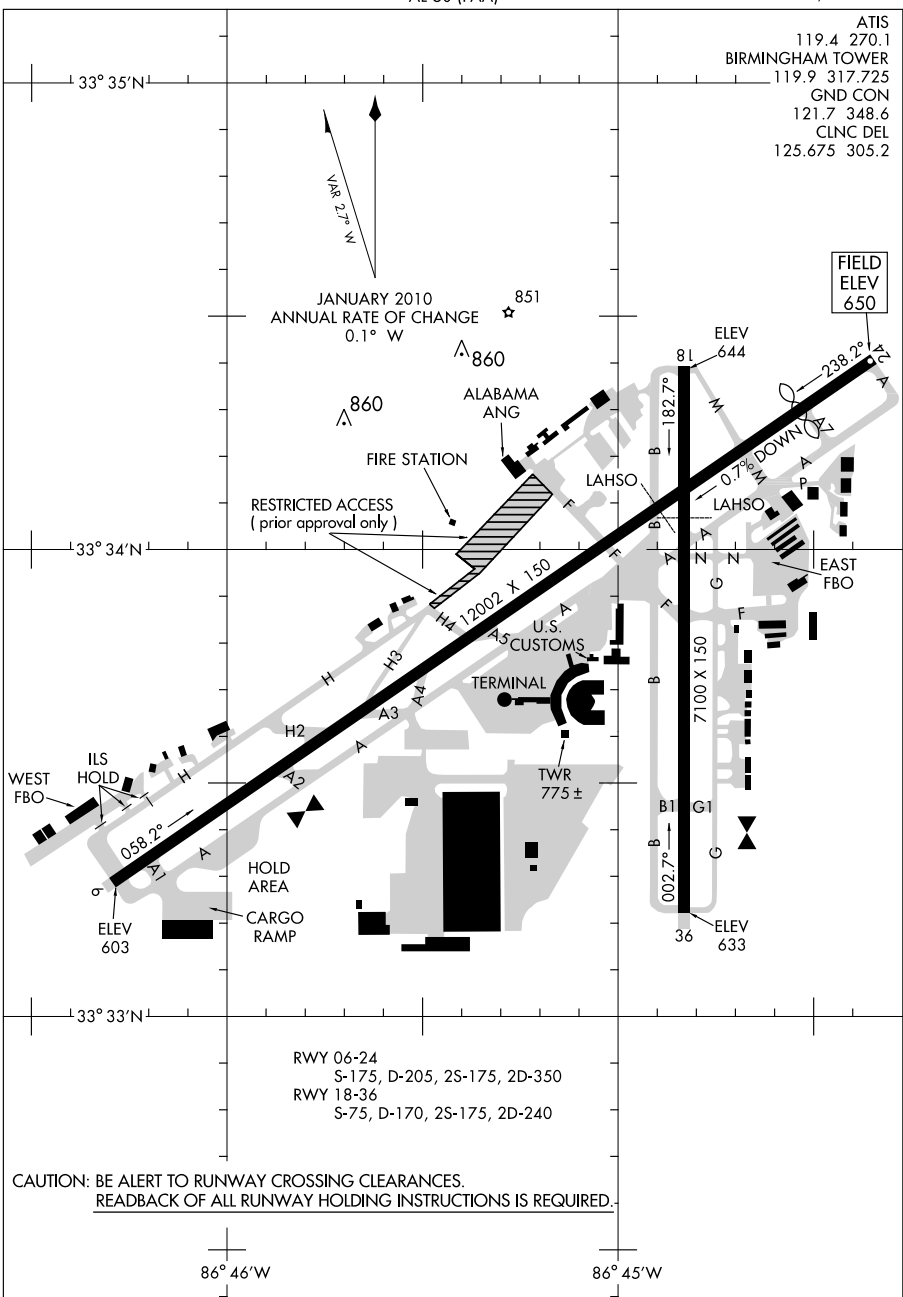
10210

AIRPORT DIAGRAM

BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

AL-50 (FAA)

BIRMINGHAM, ALABAMA



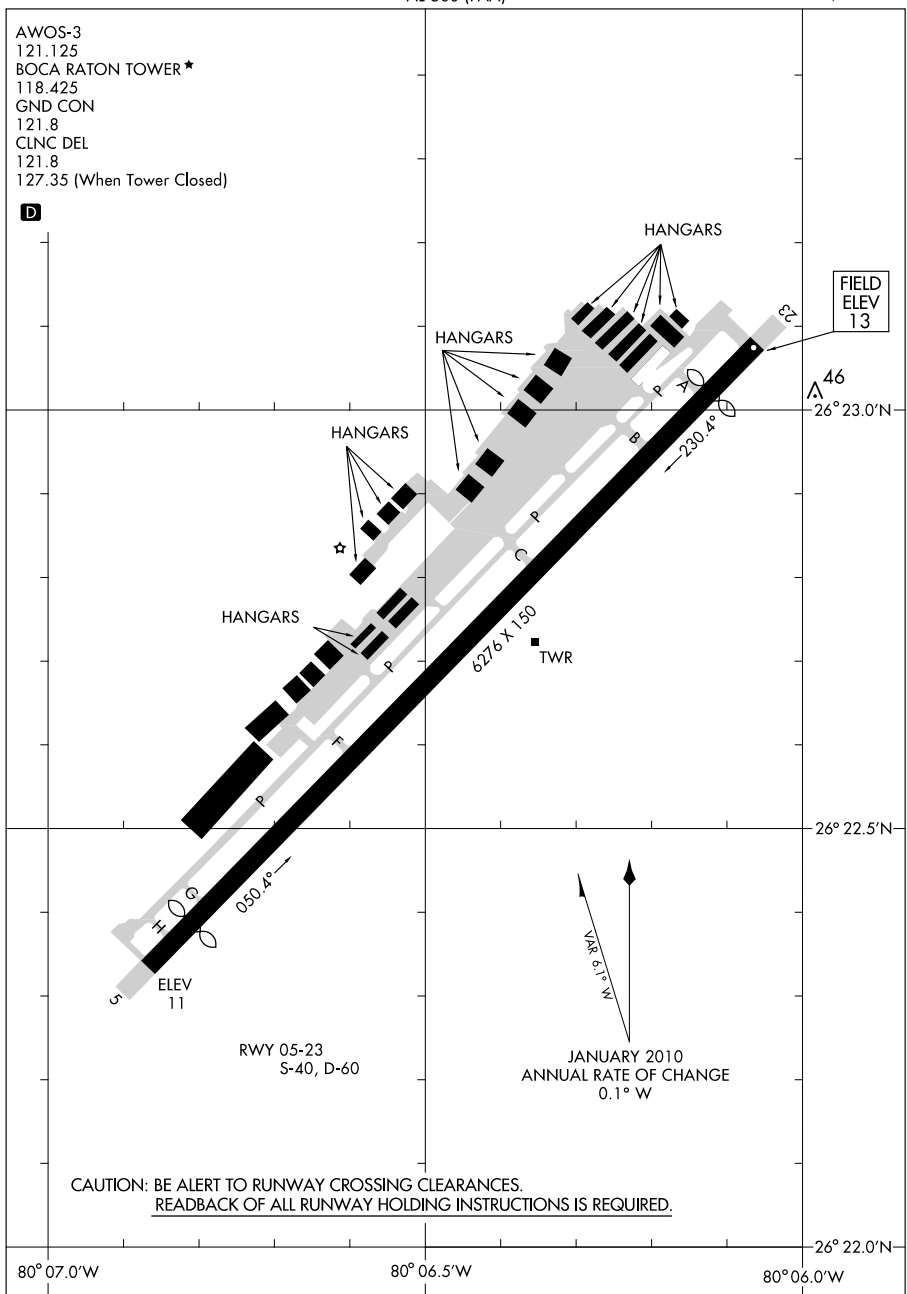
AIRPORT DIAGRAM

AL-560 (FAA)

BOCA RATON (BCT)
BOCA RATON, FLORIDA

AWOS-3
121.125
BOCA RATON TOWER ★
118.425
GND CON
121.8
CLNC DEL
121.8
127.35 (When Tower Closed)

D



AIRPORT DIAGRAM

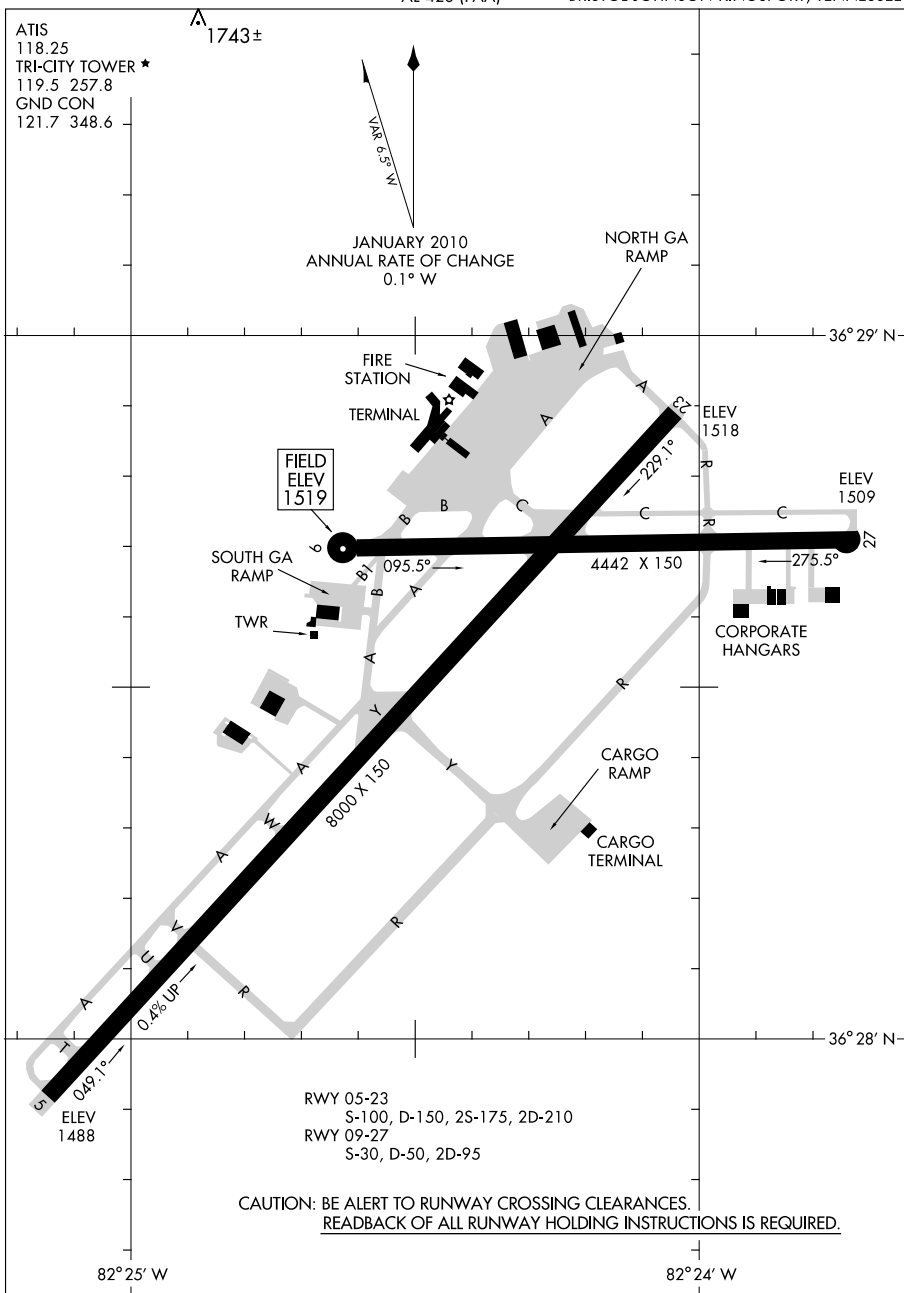
BOCA RATON, FLORIDA
BOCA RATON (BCT)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

BRISTOL/TRI-CITIES RGNL TN/VA (TRI)
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE

AIRPORT DIAGRAM

BRISTOL-JOHNSON-KINGSPORT, TENNESSEE
BRISTOL/TRI-CITIES RGNL TN/VA (TRI)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10210

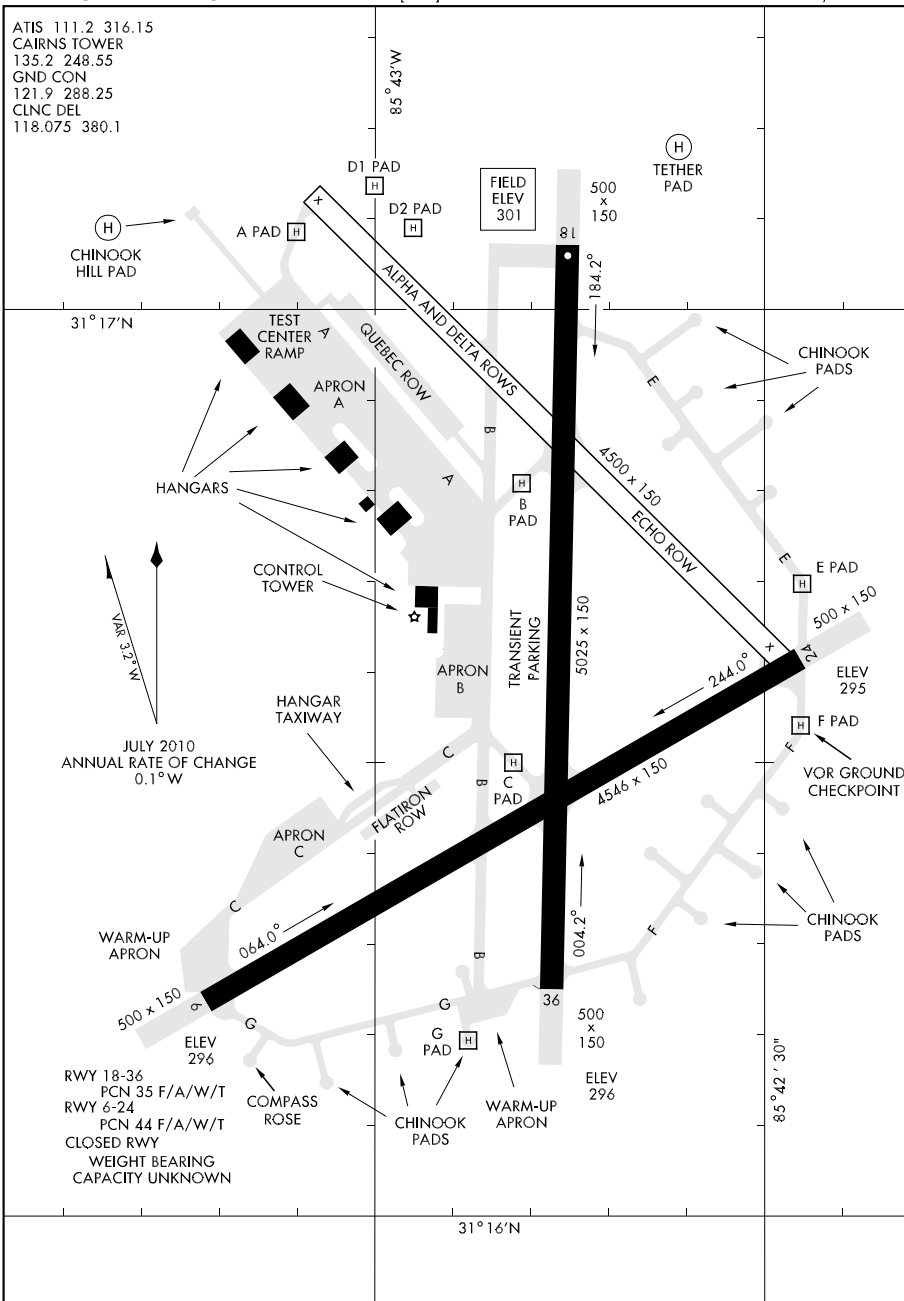
AIRPORT DIAGRAM

[USA] AFD-577

CAIRNS AAF (KOZR)

FORT RUCKER, ALABAMA

ATIS 111.2 316.15
 CAIRNS TOWER
 135.2 248.55
 GND CON
 121.9 288.25
 CLNC DEL
 118.075 380.1



AIRPORT DIAGRAM

FORT RUCKER, ALABAMA

CAIRNS AAF (KOZR)

SE. 23 SEP 2010 to 18 NOV 2010

07186

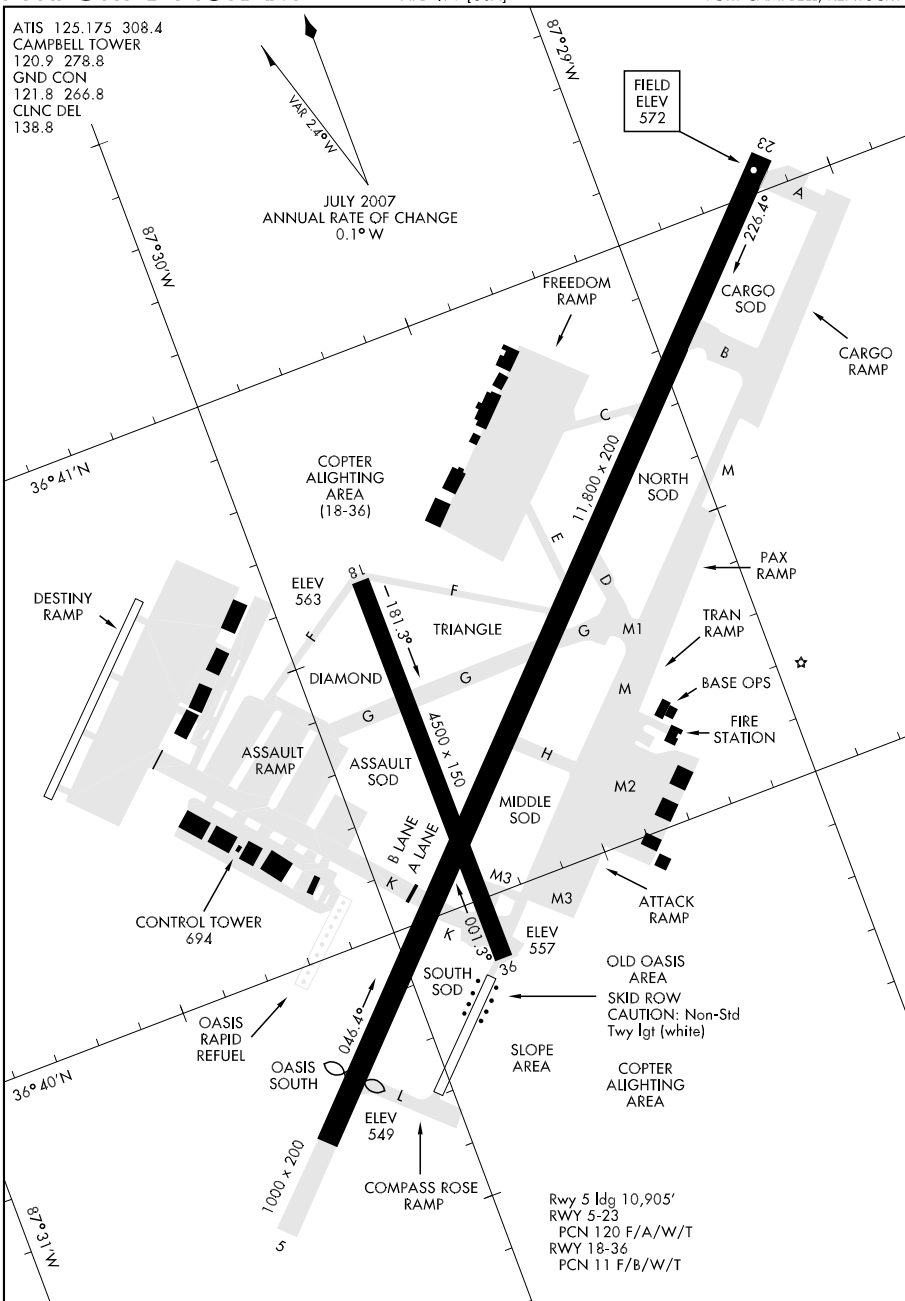
AIRPORT DIAGRAM

AFD-679 [USA]

CAMPBELL AAF (KHOP)

FORT CAMPBELL, KENTUCKY

ATIS 125.175 308.4
 CAMPBELL TOWER
 120.9 278.8
 GND CON
 121.8 266.8
 CLNC DEL
 138.8



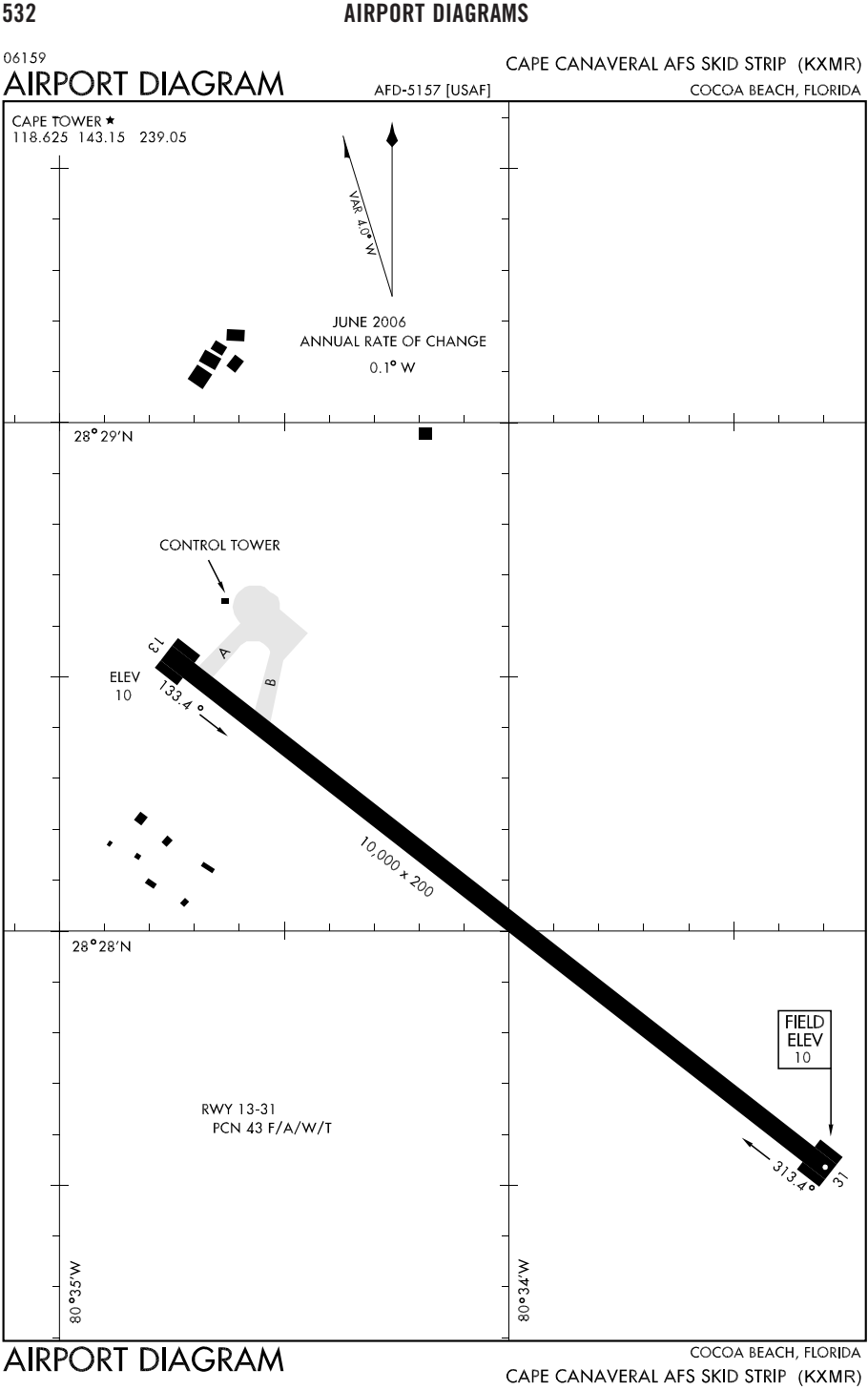
AIRPORT DIAGRAM

WGS-84 DATUM

FORT CAMPBELL, KENTUCKY

CAMPBELL AAF (KHOP)

SE. 23 SEP 2010 to 18 NOV 2010



AIRPORT DIAGRAM

AL-76 (FAA)



CHARLESTON, SOUTH CAROLINA
CHARLESTON AFB/INTL (CHS)

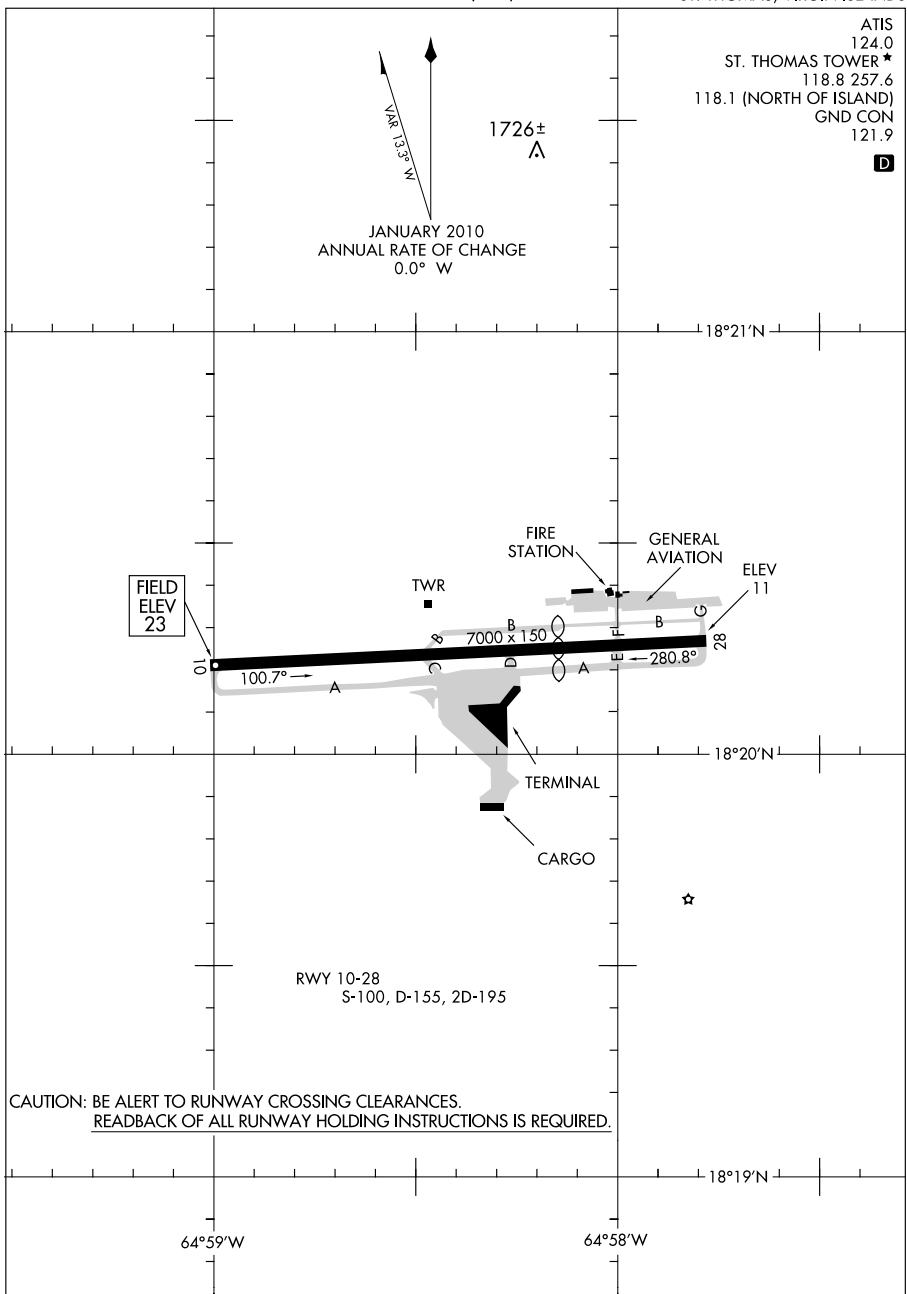
10266

SE, 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)
AL-5005 (FAA) ST. THOMAS, VIRGIN ISLANDS



AIRPORT DIAGRAM

10266

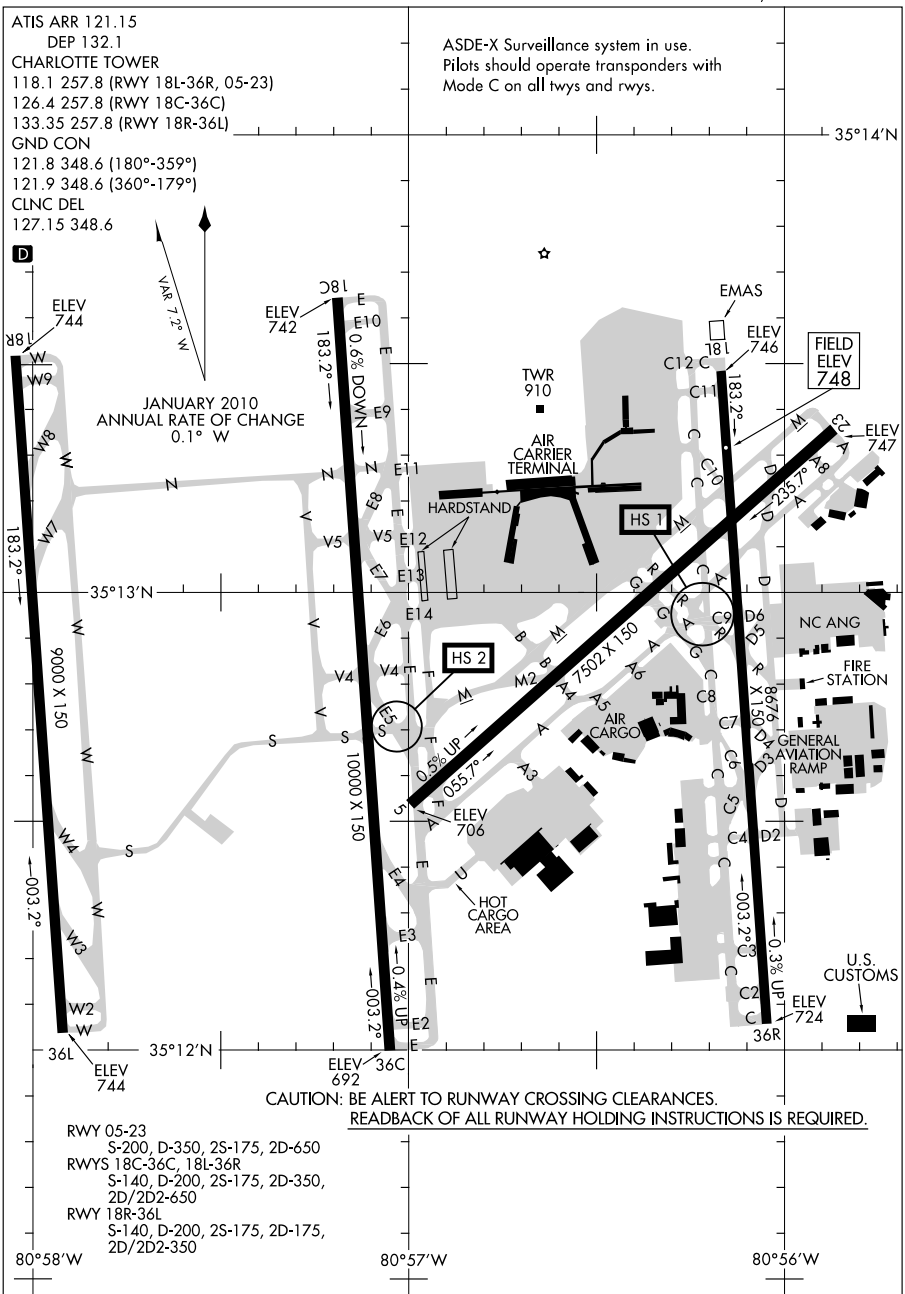
ST. THOMAS, VIRGIN ISLANDS
CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

CHARLOTTE/DOUGLAS INTL (CLT)

CHARLOTTE, NORTH CAROLINA



AIRPORT DIAGRAM

CHARLOTTE, NORTH CAROLINA

CHARLOTTE/DOUGLAS INTL (CLT)

SE, 23 SEP 2010 to 18 NOV 2010

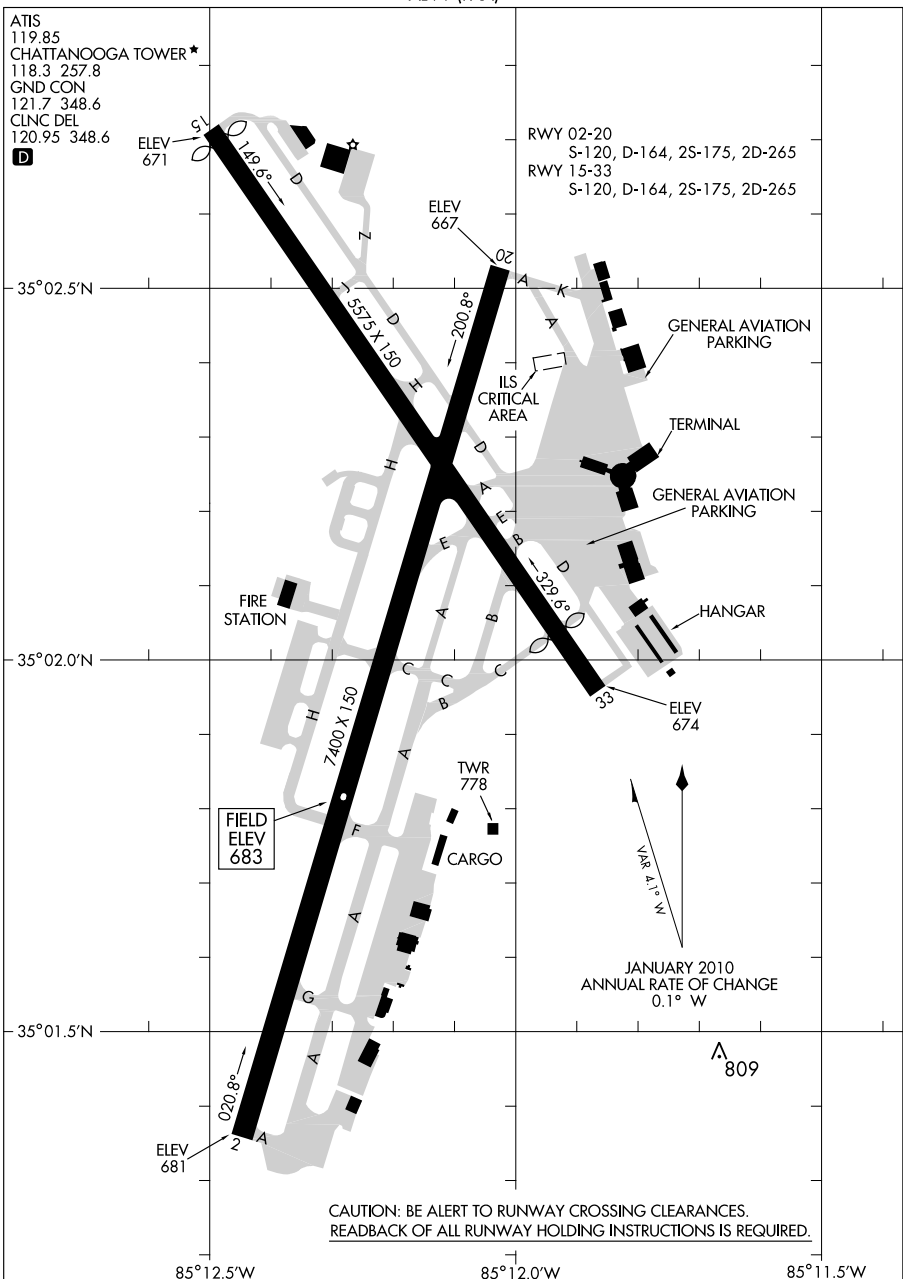
10210

AIRPORT DIAGRAM

AL-79 (FAA)

CHATTANOOGA/LOVELL FIELD (CHA)

CHATTANOOGA, TENNESSEE



AIRPORT DIAGRAM

10210

CHATTANOOGA, TENNESSEE

CHATTANOOGA/LOVELL FIELD (CHA)

SE. 23 SEP 2010 to 18 NOV 2010

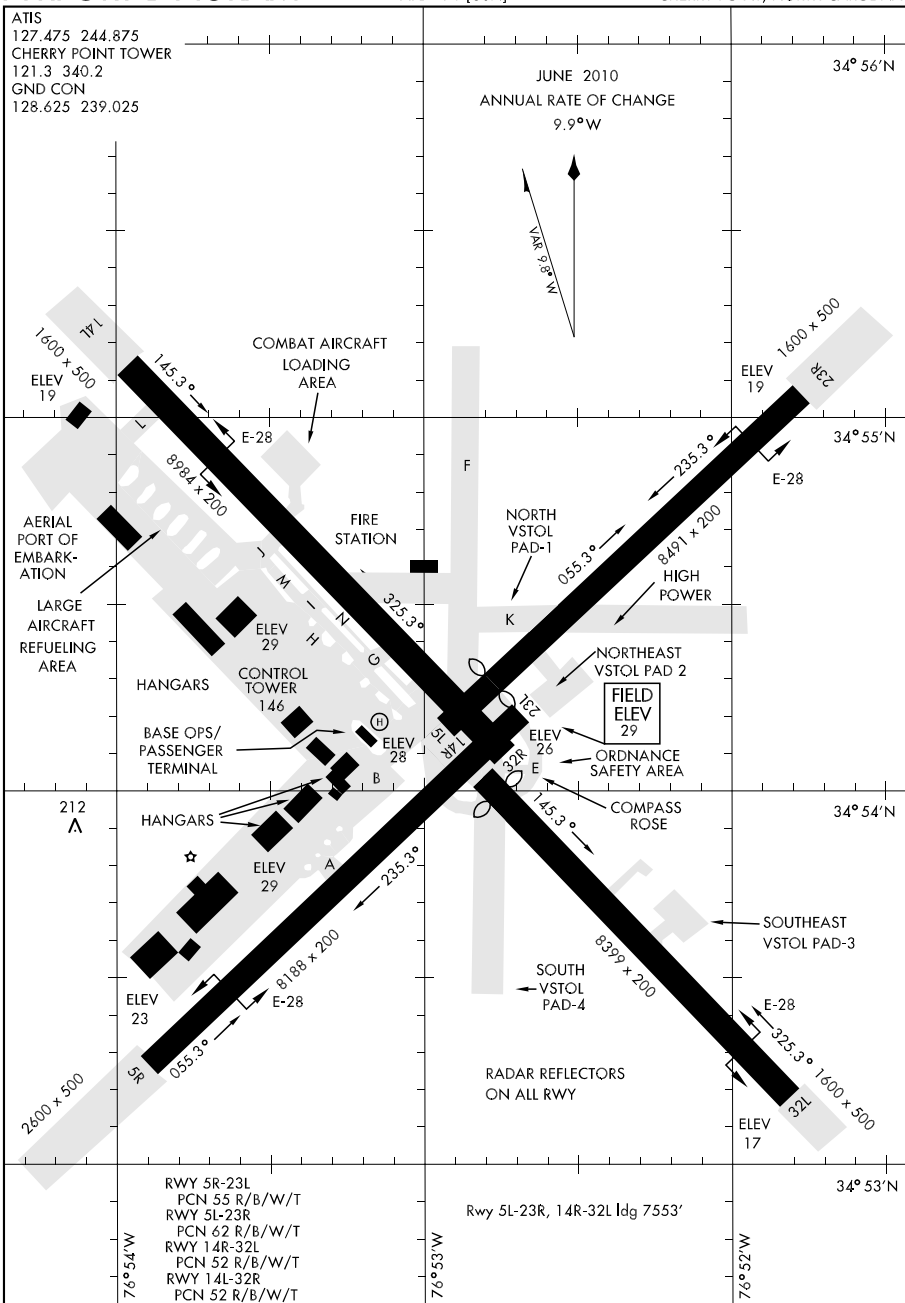
10154

AIRPORT DIAGRAM

AFD-471 [USN]

CHERRY POINT MCAS (KNKT)

CHERRY POINT, NORTH CAROLINA



AIRPORT DIAGRAM

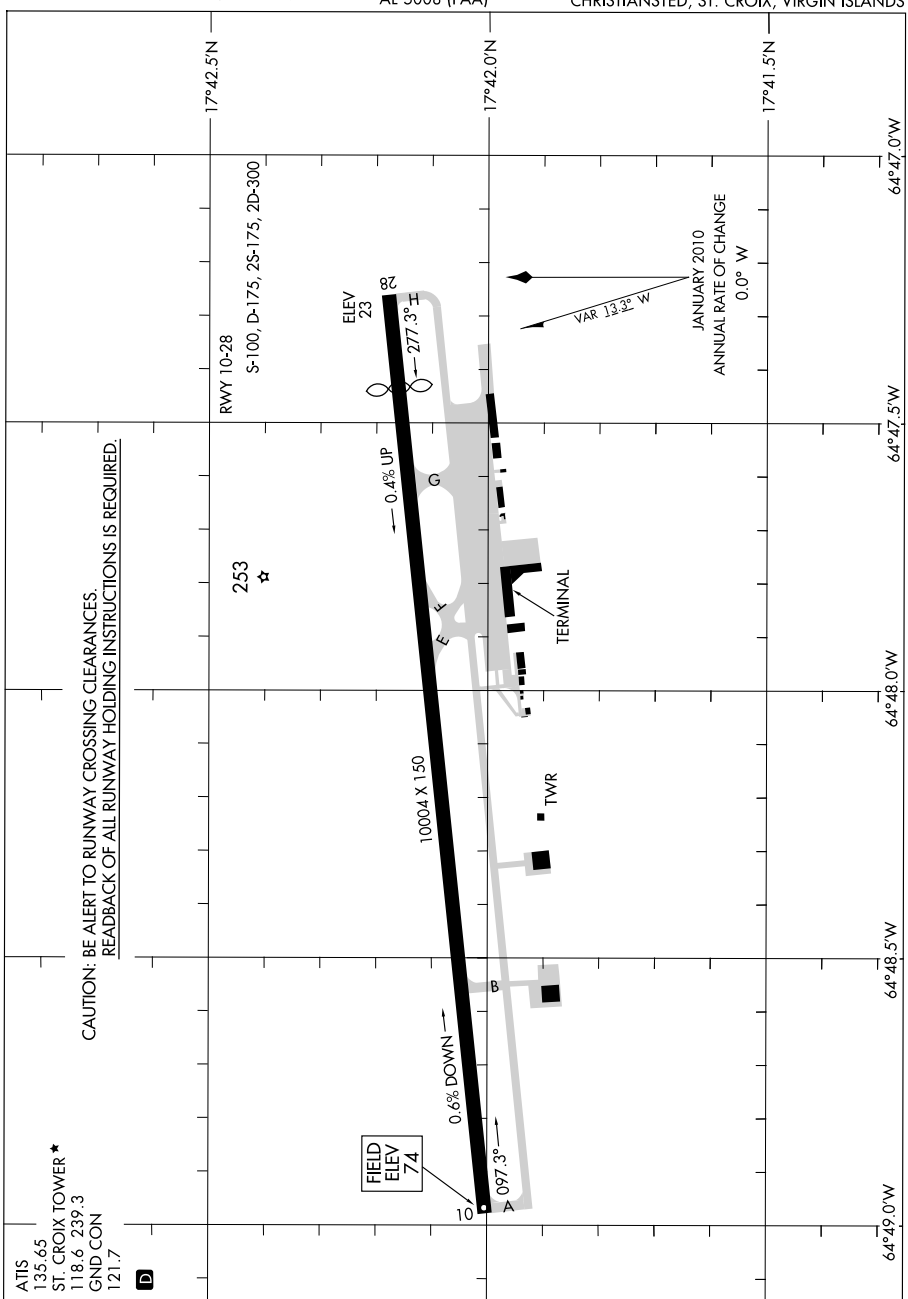
CHERRY POINT, NORTH CAROLINA

CHERRY POINT MCAS (KNKT)

10266

AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)
AL-5008 (FAA) CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS



AIRPORT DIAGRAM

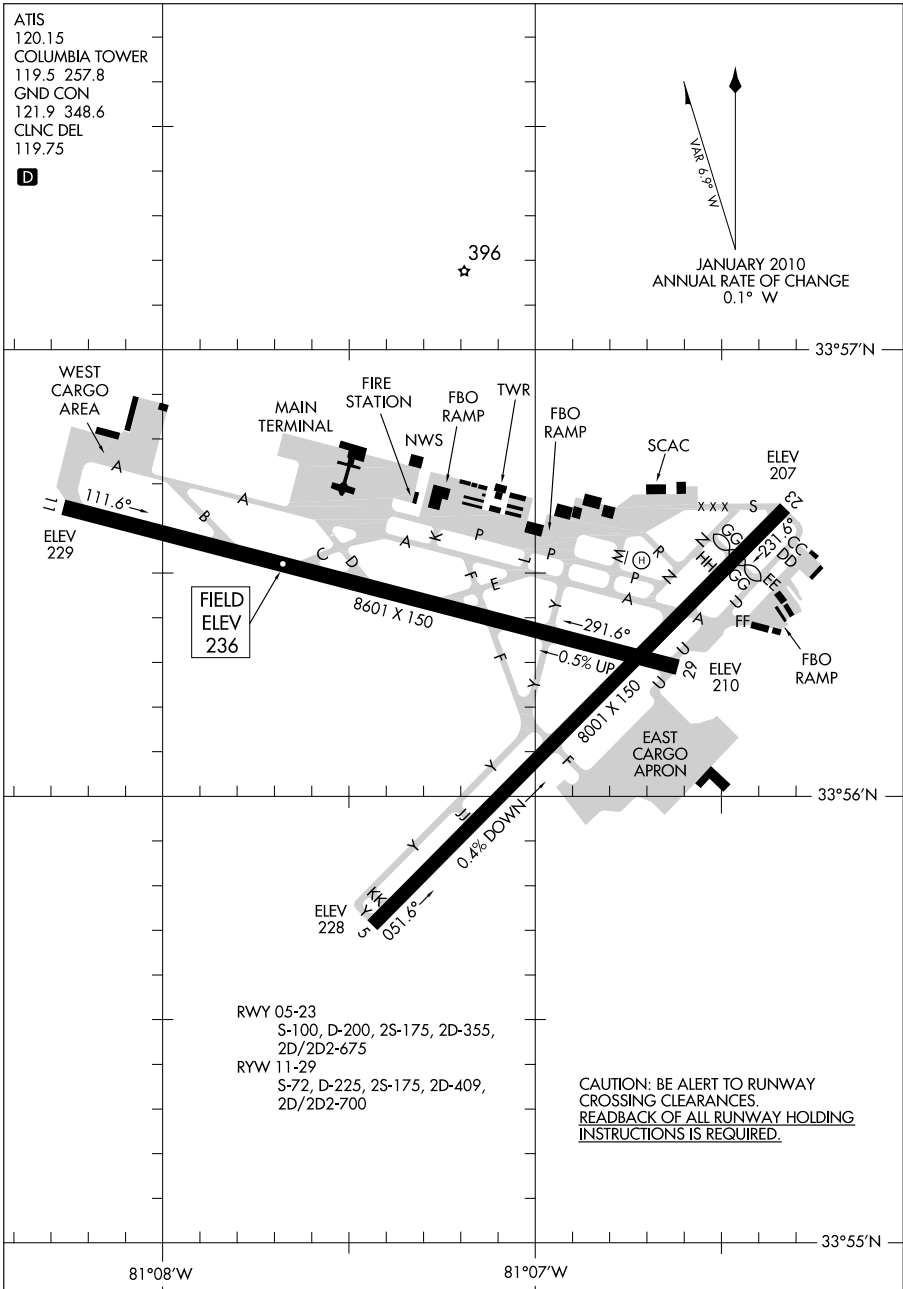
CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)
CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS

10266

10266

AIRPORT DIAGRAM

AL-89 (FAA)

COLUMBIA METROPOLITAN (CAE)
COLUMBIA, SOUTH CAROLINA

AIRPORT DIAGRAM

10266

COLUMBIA, SOUTH CAROLINA
COLUMBIA METROPOLITAN (CAE)

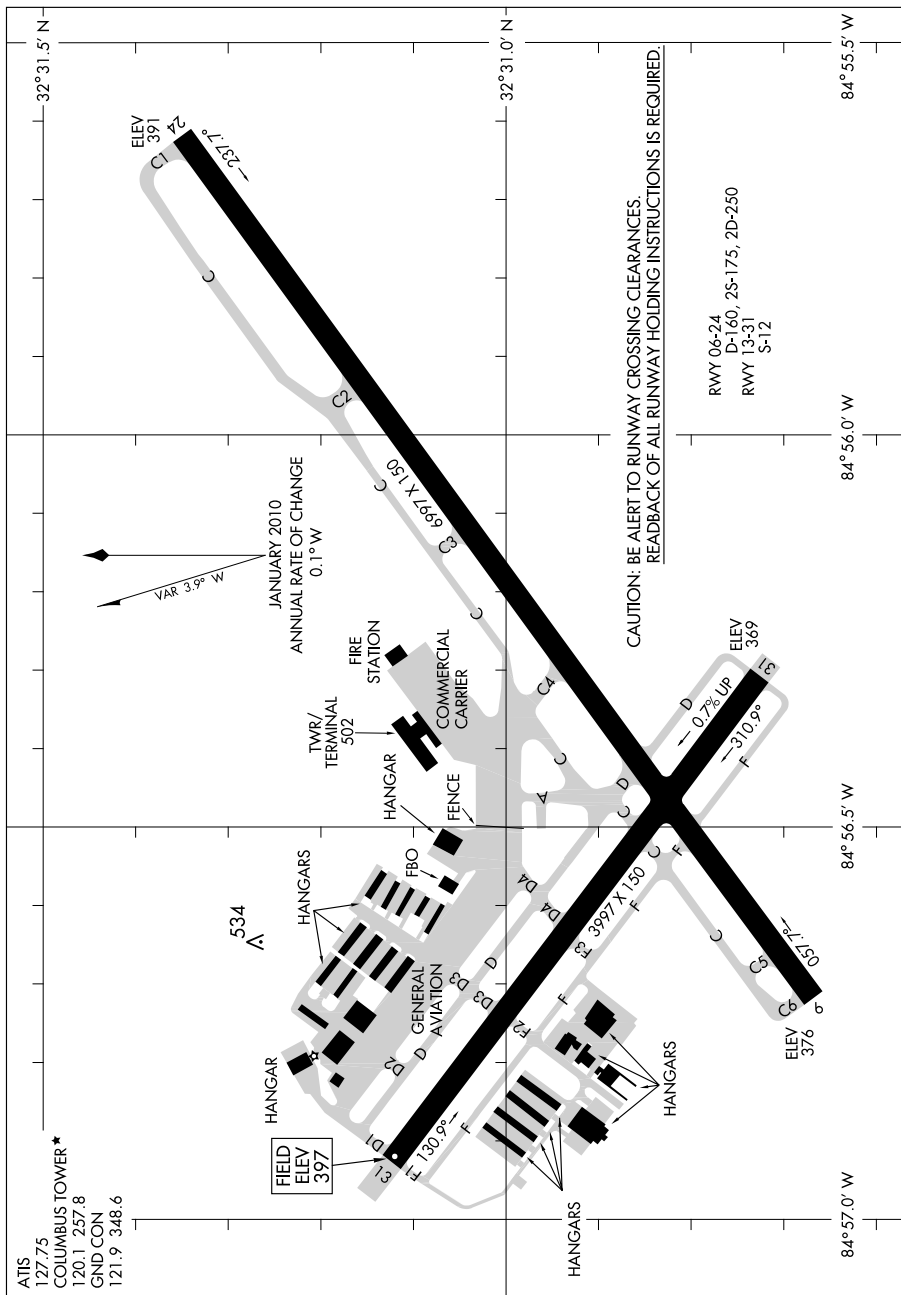
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-636 (FAA)

COLUMBUS METROPOLITAN (CSG)
COLUMBUS, GEORGIA



AIRPORT DIAGRAM

10266

COLUMBUS, GEORGIA
COLUMBUS METROPOLITAN (CSG)

10210

AIRPORT DIAGRAM

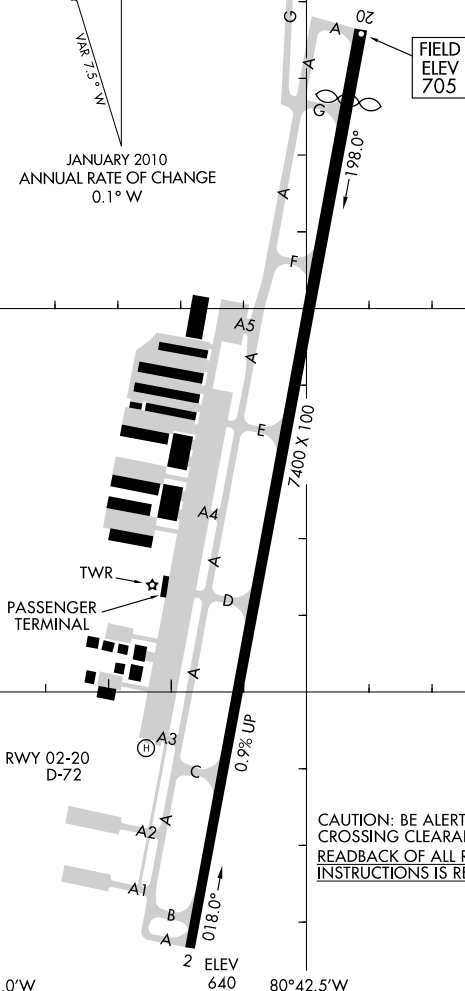
AL-9155 (FAA)

CONCORD RGNL (JQF)
CONCORD, NORTH CAROLINA

AWOS-3
133.675
CONCORD TOWER ★
134.65
GND CON
121.85
CLNC DEL
118.55
CHARLOTTE CLNC DEL
127.25 (When Tower Closed)

D

VAR 7.5° N
JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W



35°24.0'N

35°23.5'N

35°23.0'N

80°43.0'W

80°42.5'W

80°42.0'W

AIRPORT DIAGRAM

CONCORD, NORTH CAROLINA
CONCORD RGNL (JQF)

10210

SE. 23 SEP 2010 to 18 NOV 2010

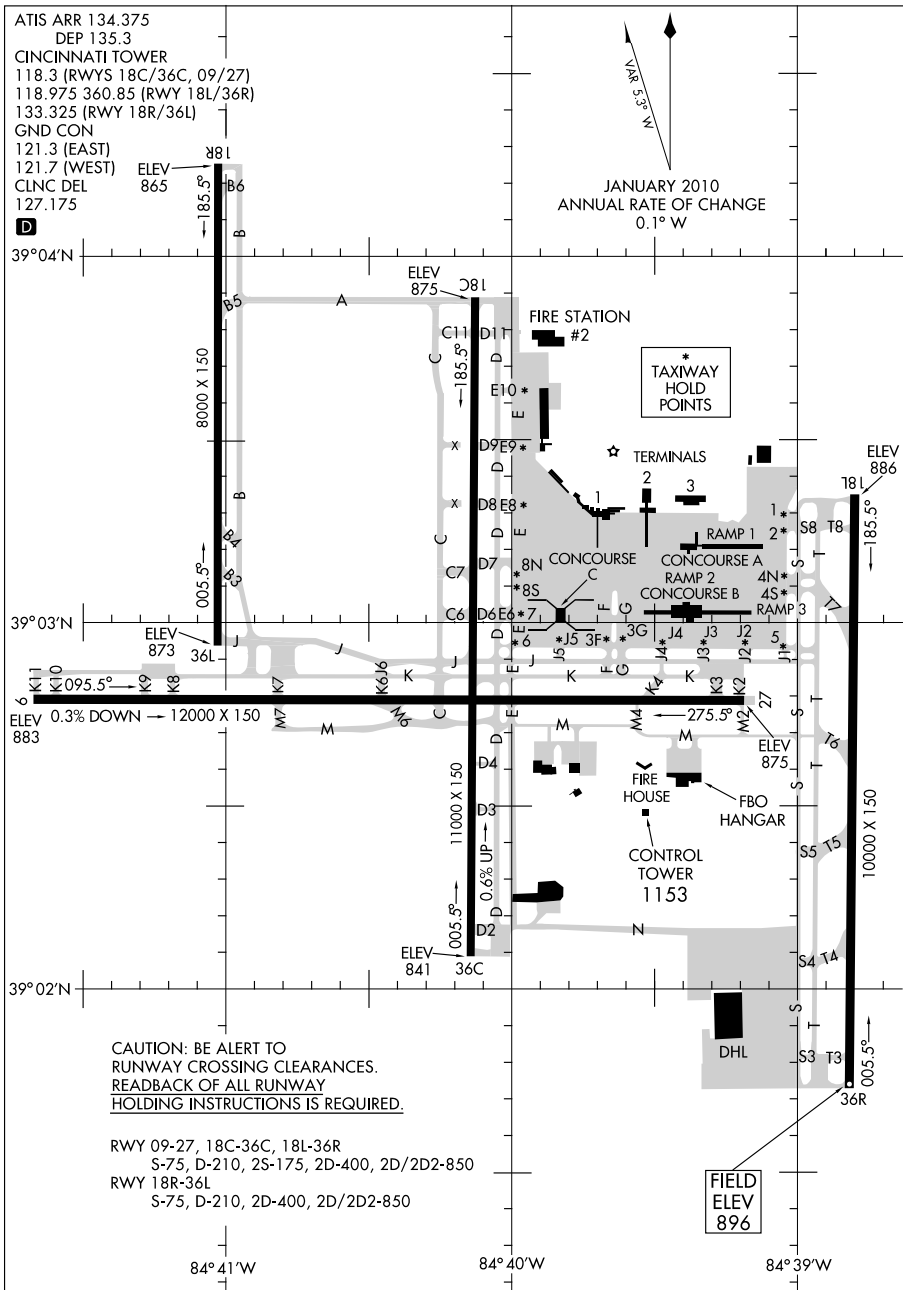
10210

AIRPORT DIAGRAM

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

AL-655 (FAA)

COVINGTON, KENTUCKY



AIRPORT DIAGRAM

10210

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

SE, 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

DOBBINS ARB (KMGE)

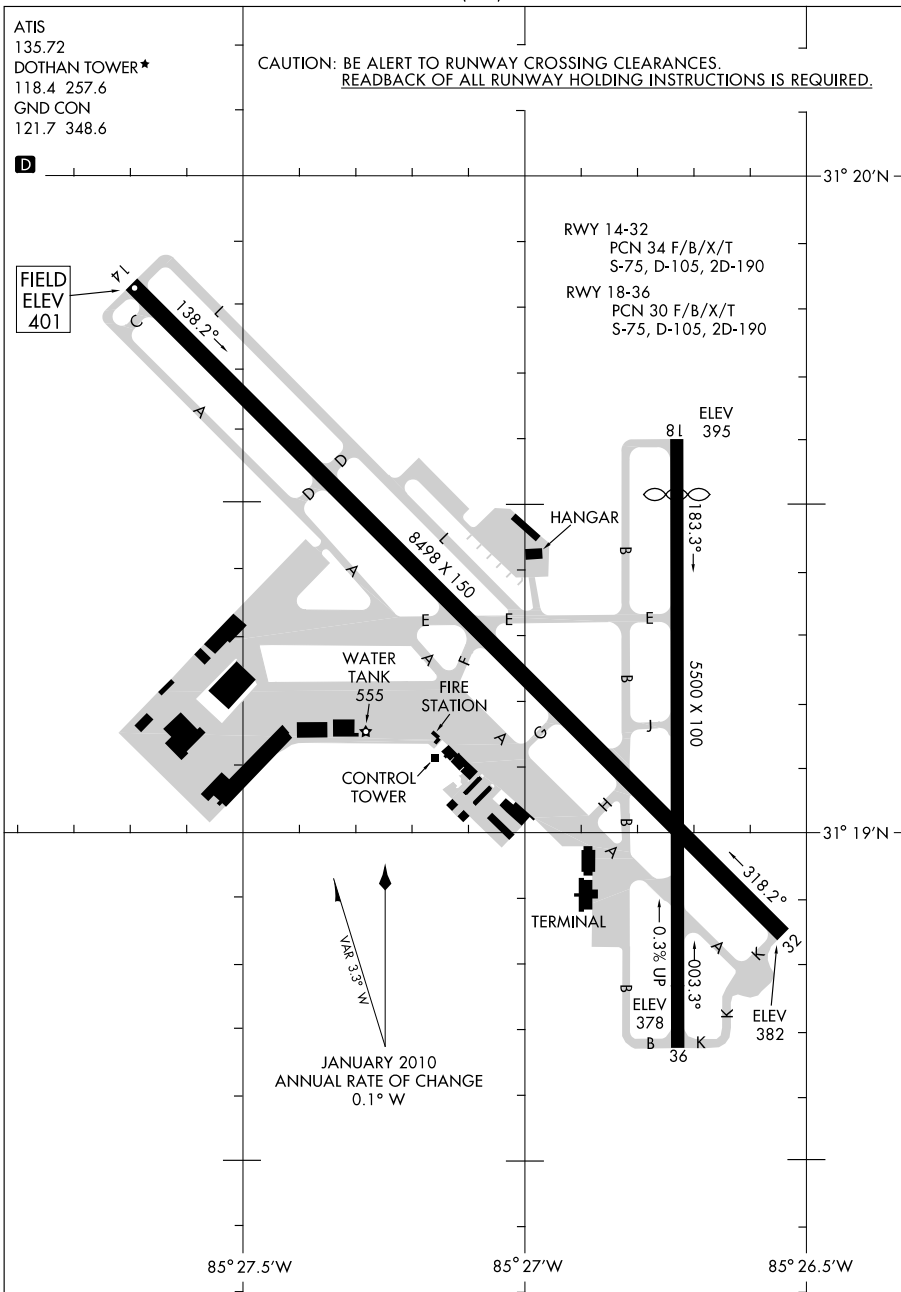
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-123 (FAA)

DOTHAN RGNL (DHN)
DOTHAN, ALABAMA



AIRPORT DIAGRAM

10210

DOTHAN, ALABAMA
DOTHAN RGNL (DHN)

10210

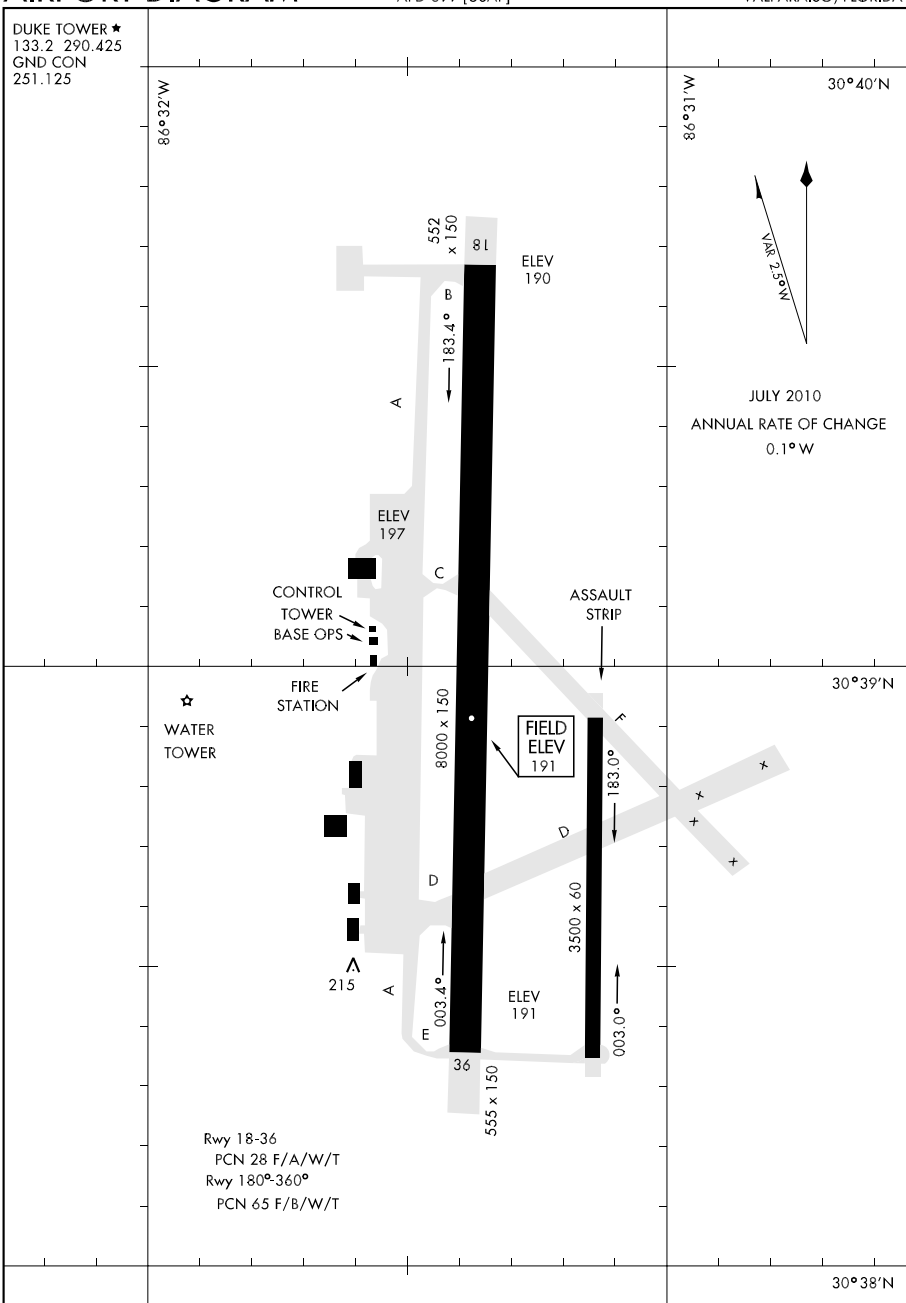
AIRPORT DIAGRAM

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

AFD-699 [USAF]

VALPARAISO, FLORIDA

DUKE TOWER ★
133.2 290.425
GND CON
251.125



AIRPORT DIAGRAM

VALPARAISO, FLORIDA

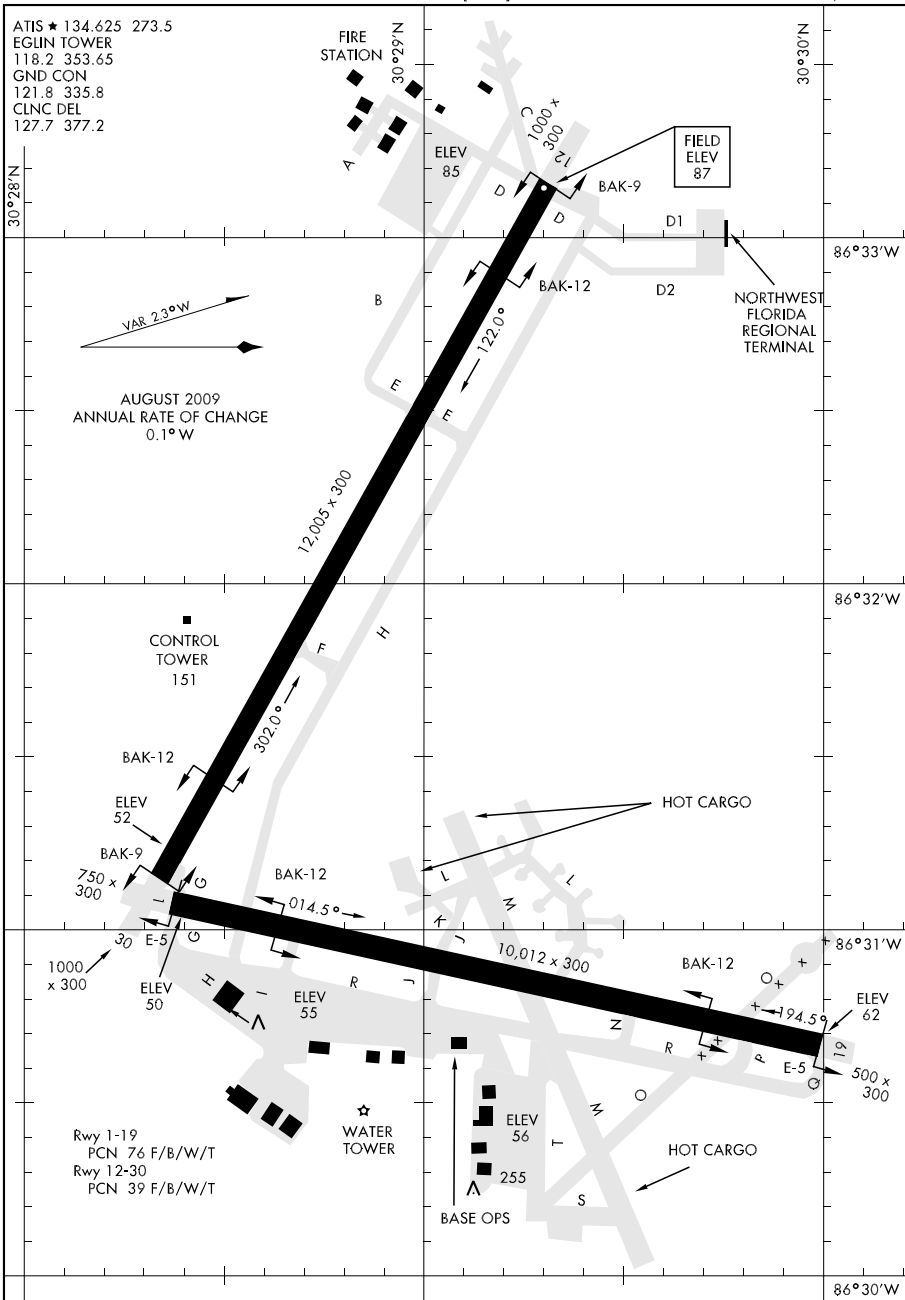
DUKE FLD (EGLIN AF AUX NR3) (KEGI)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

VALPARAISO, FLORIDA

AFD-436 [USAF]



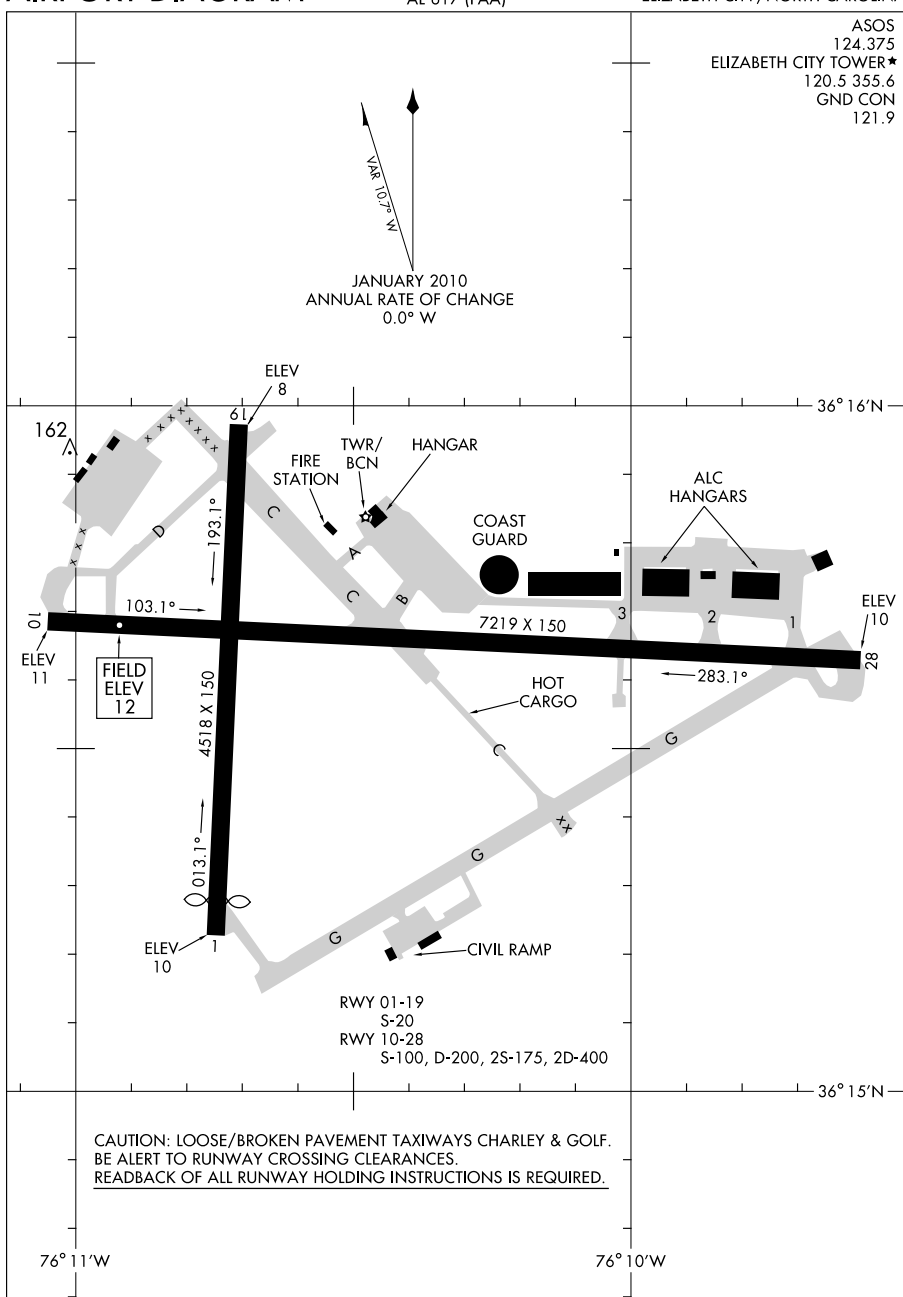
AIRPORT DIAGRAM

EGLIN AFB (KVPS)

SE, 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/C/G)
AL-617 (FAA) ELIZABETH CITY, NORTH CAROLINA



AIRPORT DIAGRAM

ELIZABETH CITY, NORTH CAROLINA
ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/C/G)

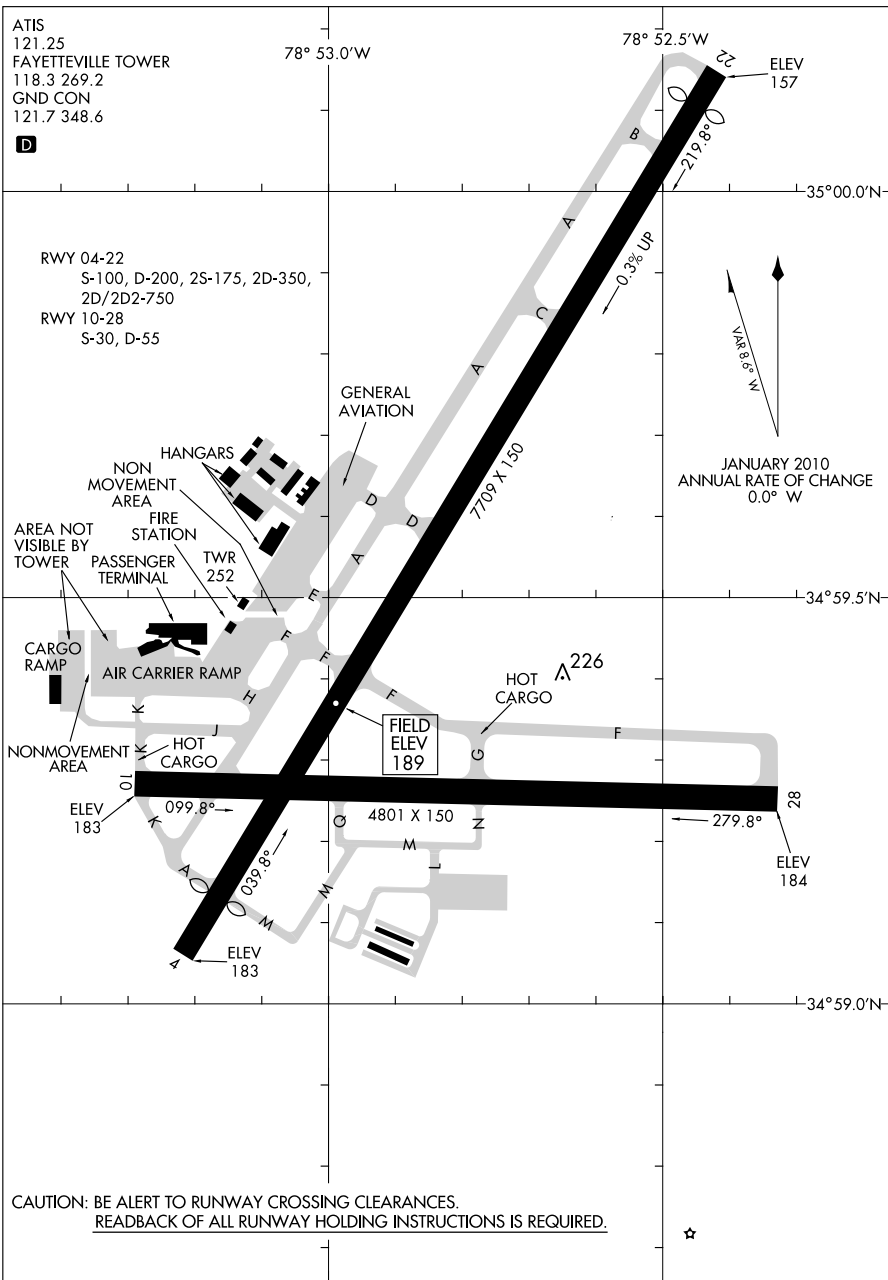
10210

AIRPORT DIAGRAM

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

AL-690 (FAA)

FAYETTEVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

10210

FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

SE. 23 SEP 2010 to 18 NOV 2010

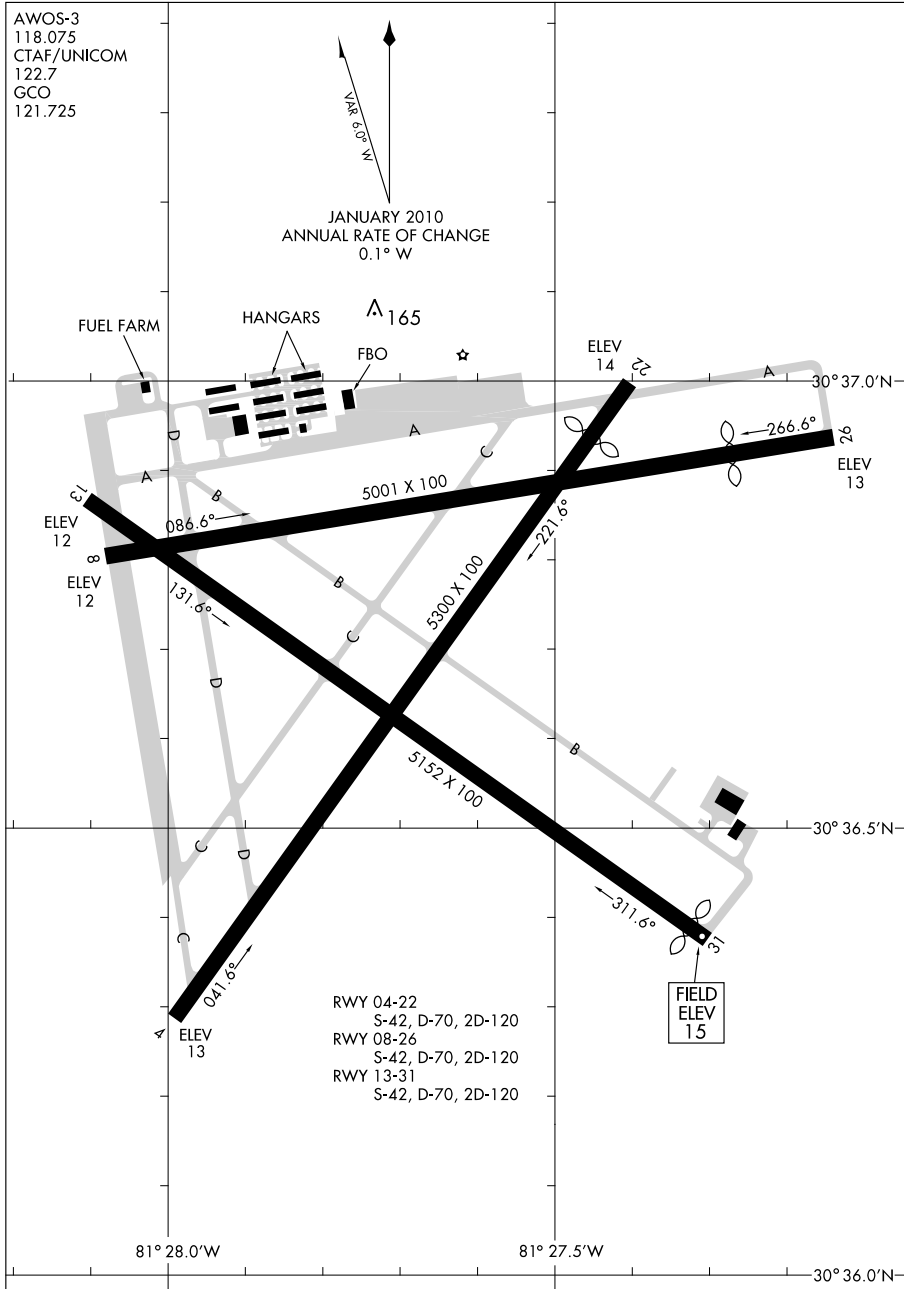
10210

AIRPORT DIAGRAM

AL-6597 (FAA)

FERNANDINA BEACH MUNI (FHB)

FERNANDINA BEACH, FLORIDA



AIRPORT DIAGRAM

10210

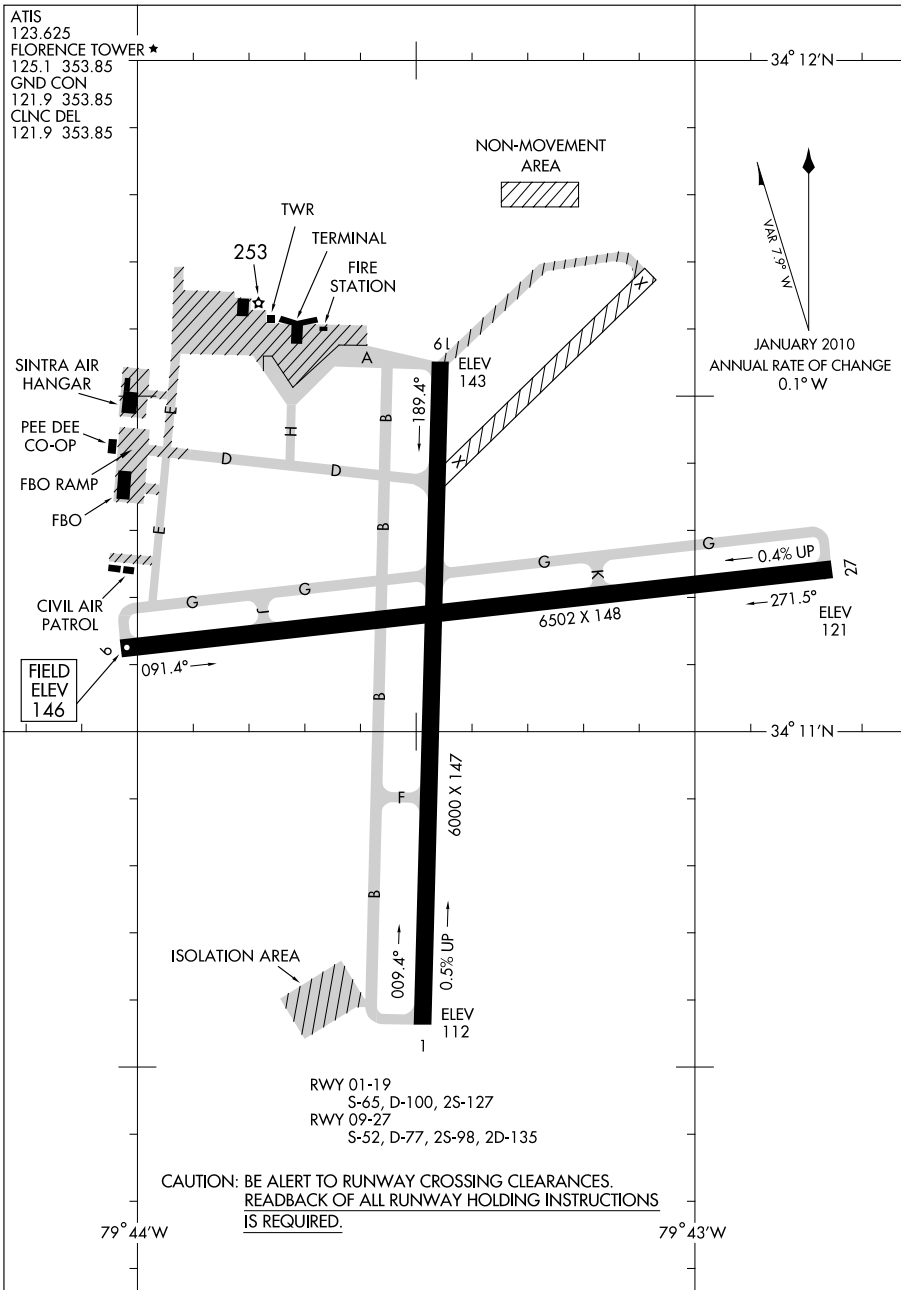
FERNANDINA BEACH, FLORIDA
FERNANDINA BEACH MUNI (FHB)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-145 (FAA)

FLORENCE RGNL (FLO)
FLORENCE, SOUTH CAROLINA

AIRPORT DIAGRAM

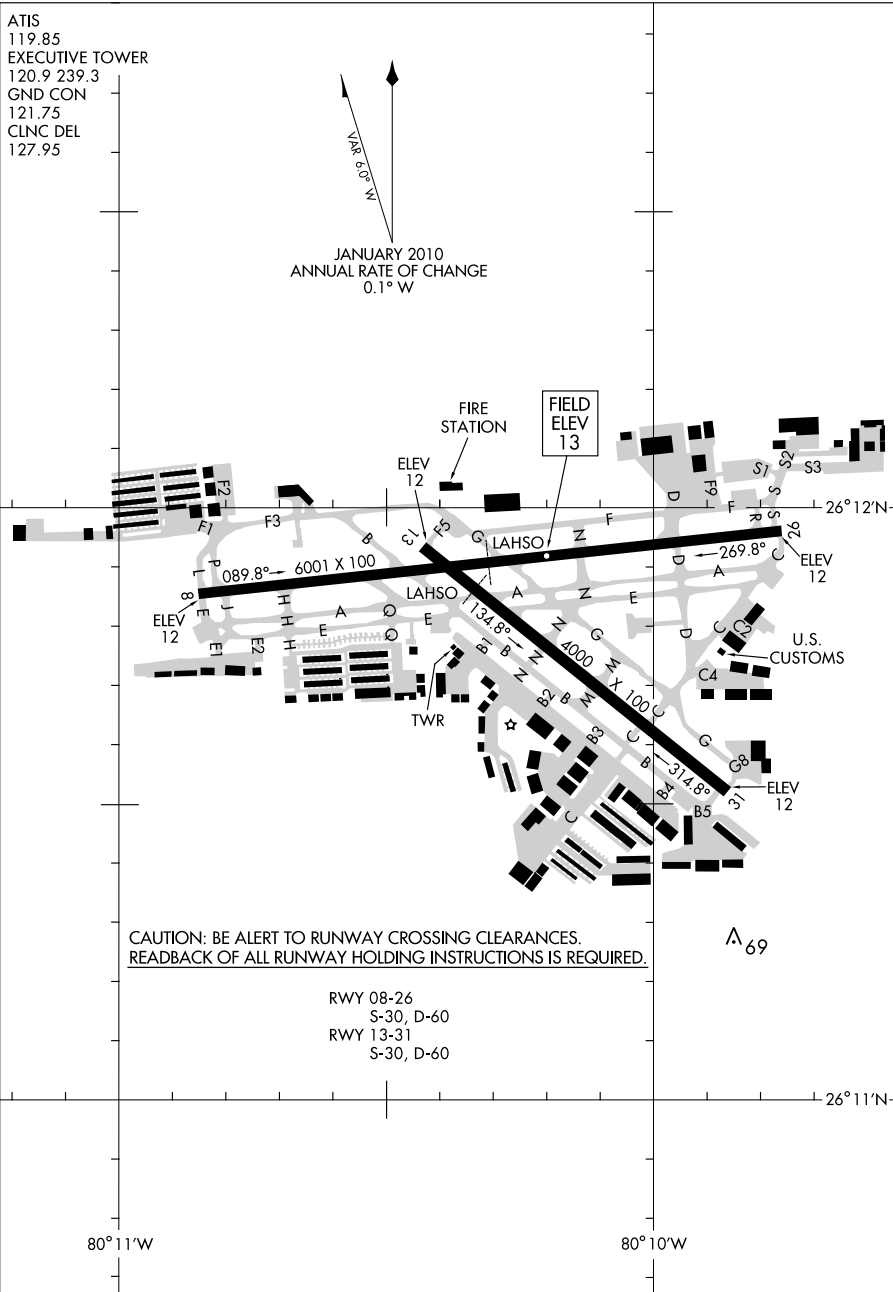
10210

FLORENCE, SOUTH CAROLINA
FLORENCE RGNL (FLO)

SE. 23 SEP 2010 to 18 NOV 2010

10210
AIRPORT DIAGRAM

AL-5942 (FAA) FORT LAUDERDALE EXECUTIVE (FXE)
FORT LAUDERDALE, FLORIDA



AIRPORT DIAGRAM
10210

FORT LAUDERDALE, FLORIDA
FORT LAUDERDALE EXECUTIVE (FXE)

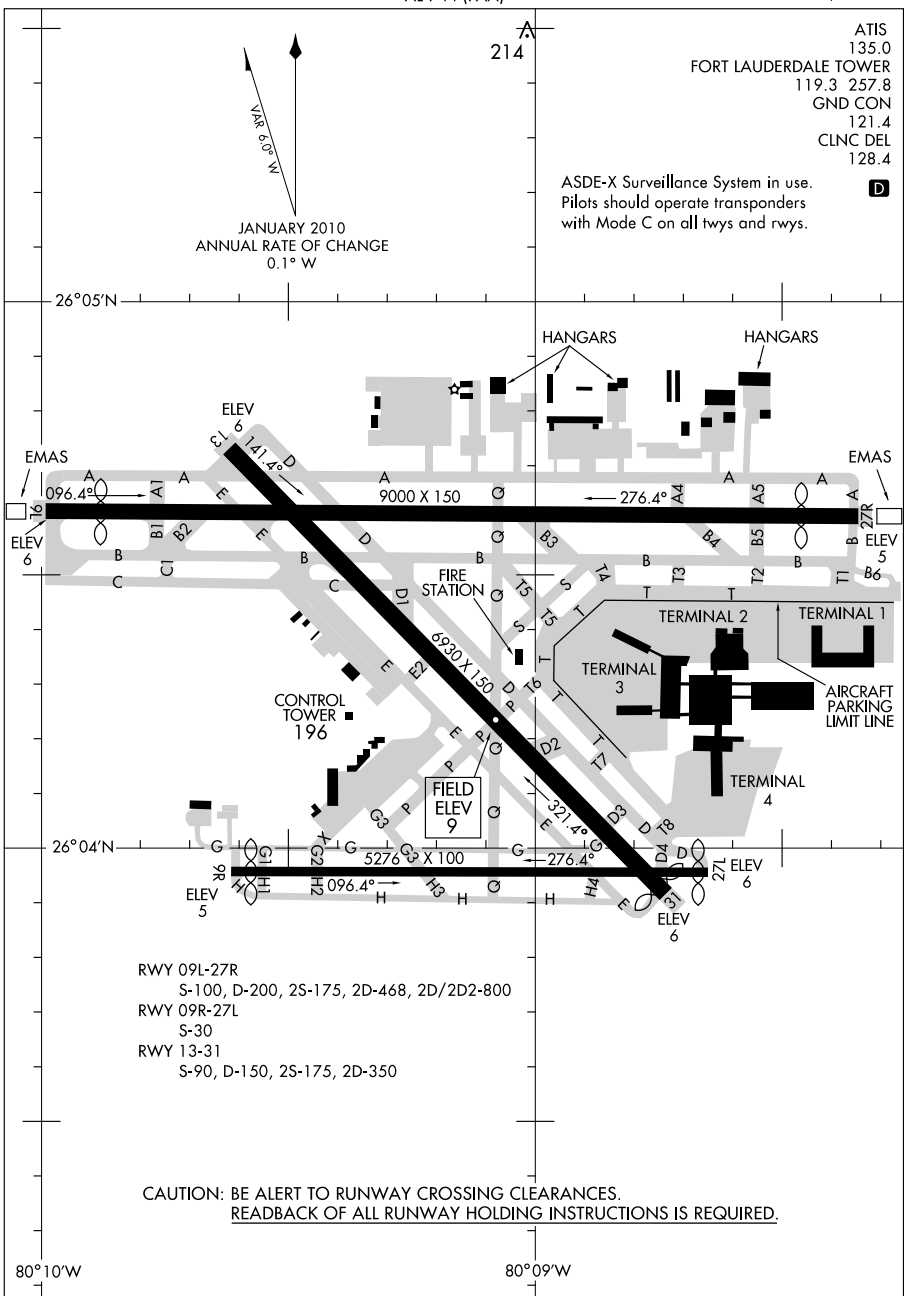
10210

AIRPORT DIAGRAM

FORT LAUDERDALE-HOLLYWOOD INTL (FLL)

AL-744 (FAA)

FORT LAUDERDALE, FLORIDA



AIRPORT DIAGRAM

10210

FORT LAUDERDALE, FLORIDA

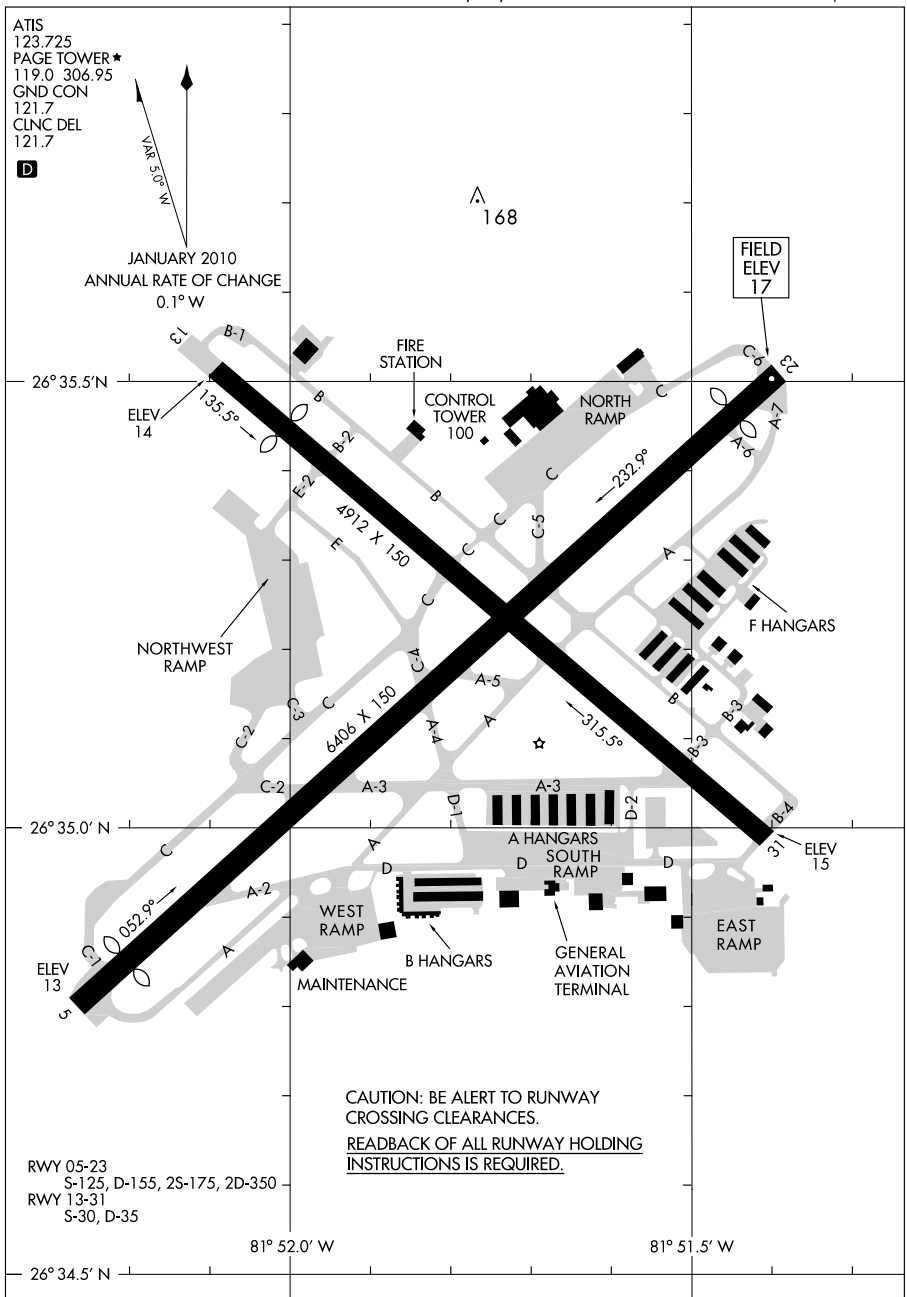
FORT LAUDERDALE-HOLLYWOOD INTL (FLL)

SE, 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-154 (FAA)

FORT MYERS /PAGE FIELD (FMY)
FORT MYERS, FLORIDA



AIRPORT DIAGRAM

FORT MYERS, FLORIDA
FORT MYERS /PAGE FIELD (FMY)

SE. 23 SEP 2010 to 18 NOV 2010

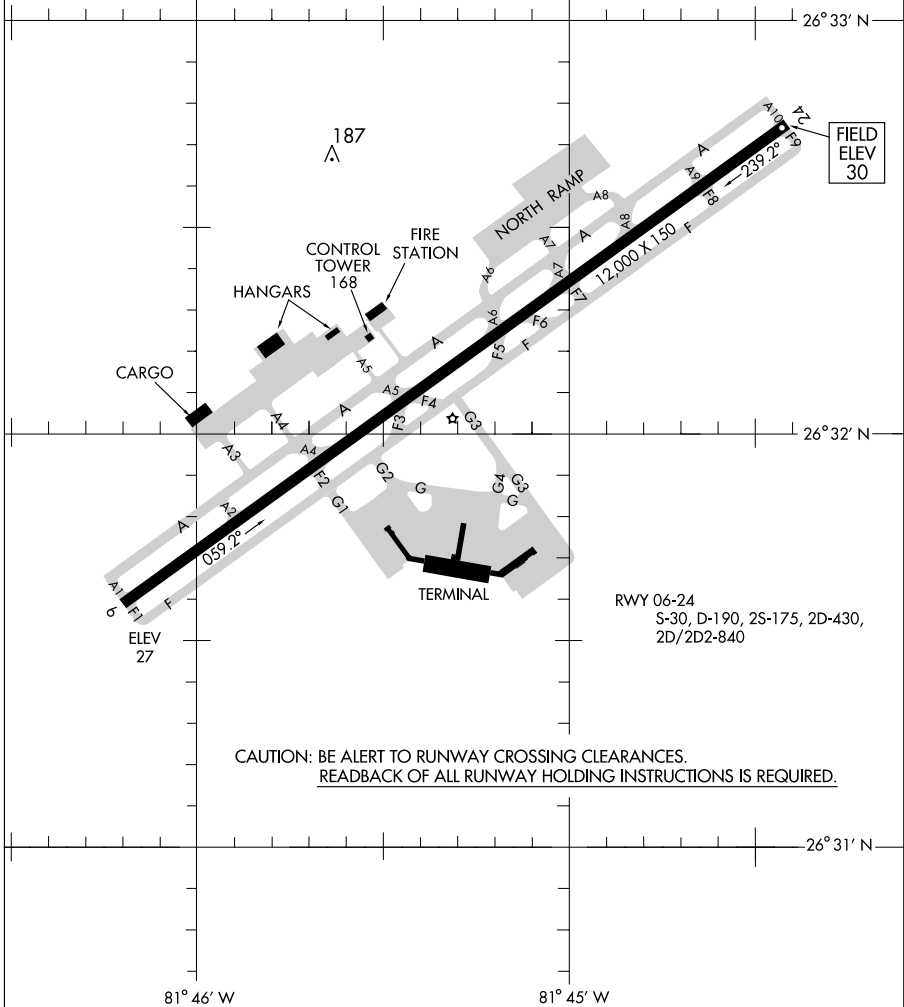
10210

AIRPORT DIAGRAM

FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)
AL-6757 (FAA) FORT MYERS, FLORIDA

ATIS
124.65
FORT MYERS TOWER ★
128.75 257.8
GND CON
121.9 348.6
CLNC DEL
132.075

JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W



AIRPORT DIAGRAM

10210

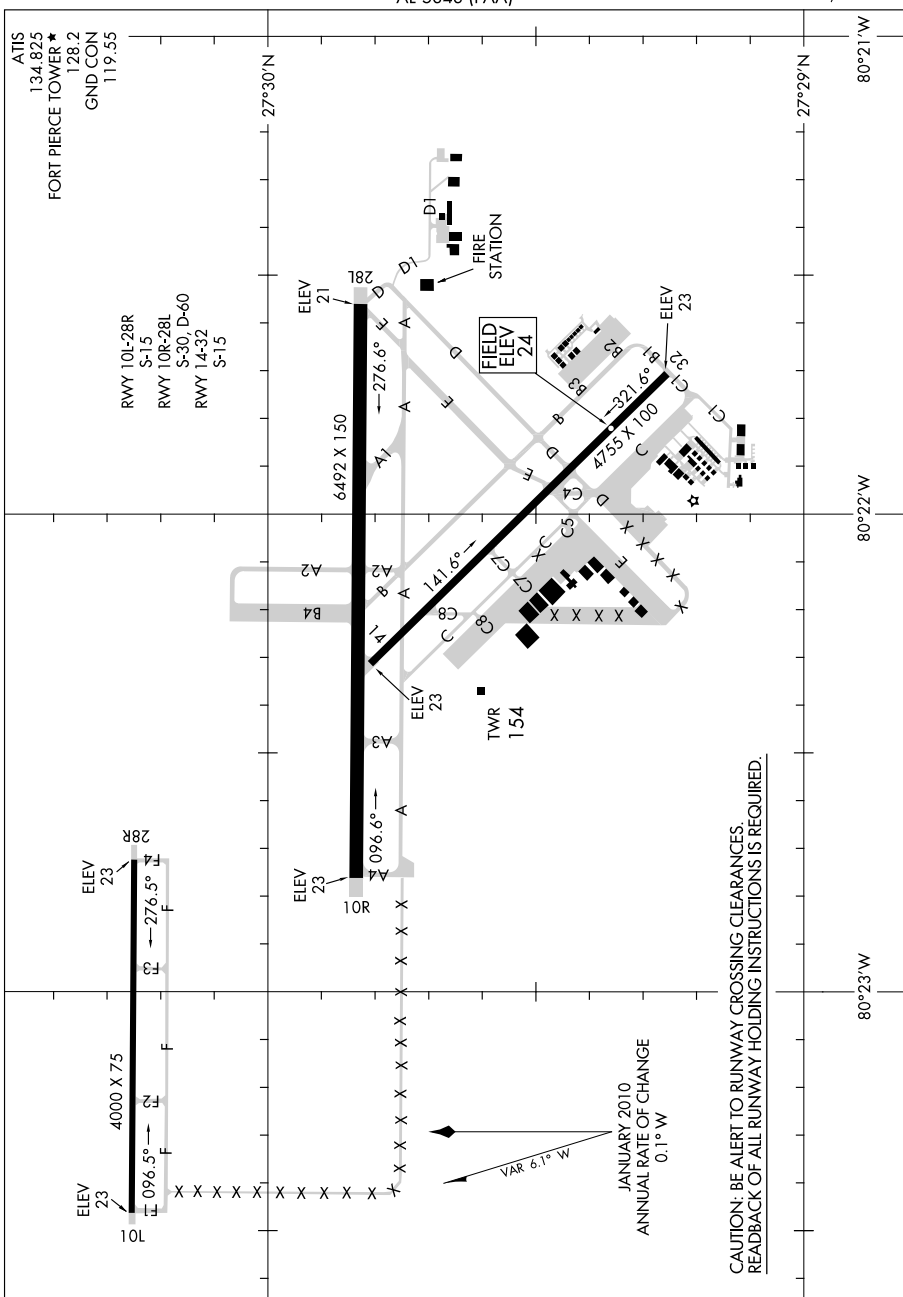
FORT MYERS, FLORIDA
FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)
AL-5343 (FAA) FORT PIERCE, FLORIDA

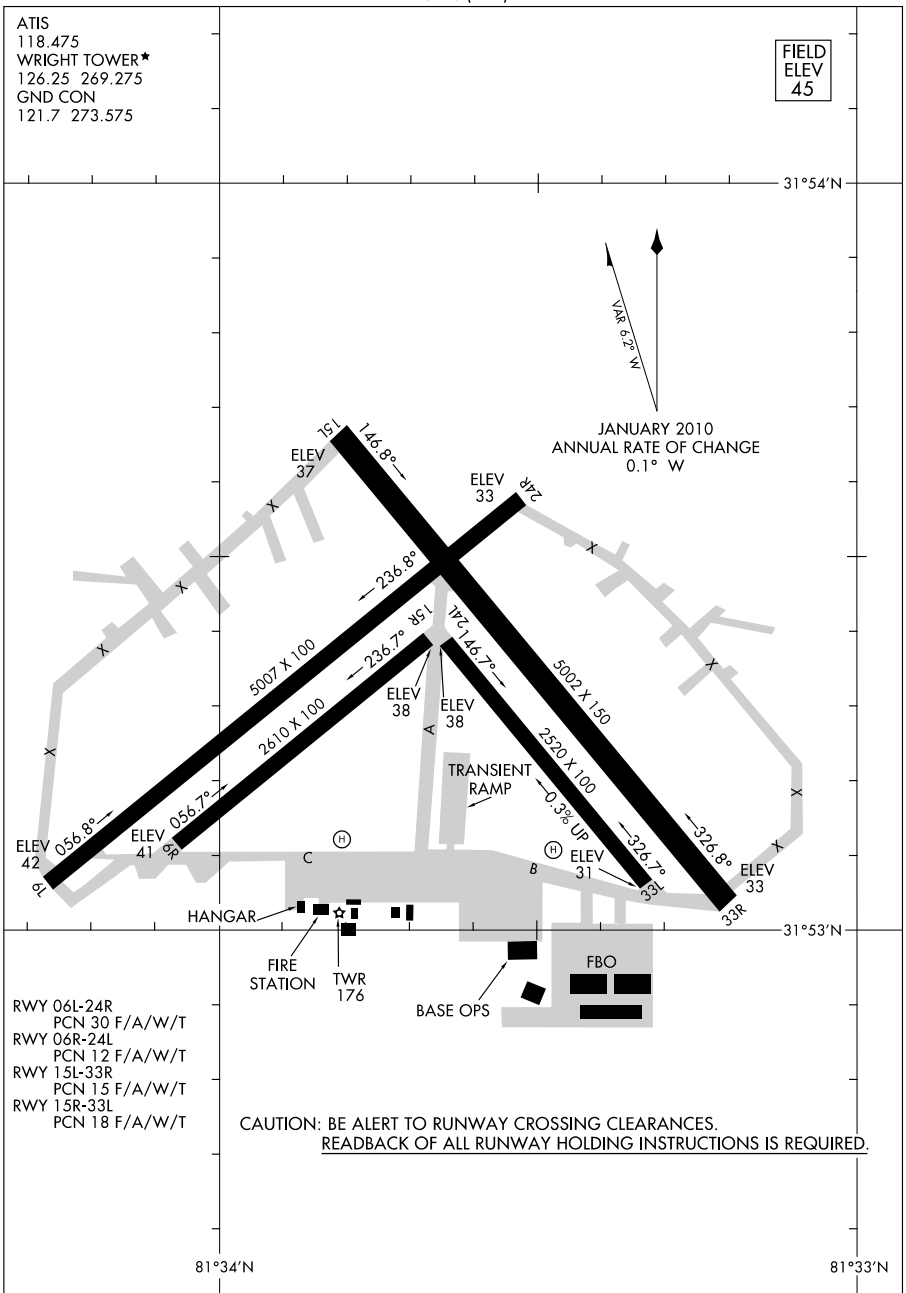


AIRPORT DIAGRAM

FORT PIERCE, FLORIDA
FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)

SE. 23 SEP 2010 to 18 NOV 2010

10210 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)
AIRPORT DIAGRAM AL-5170 (FAA) FORT STEWART(HINESVILLE), GEORGIA

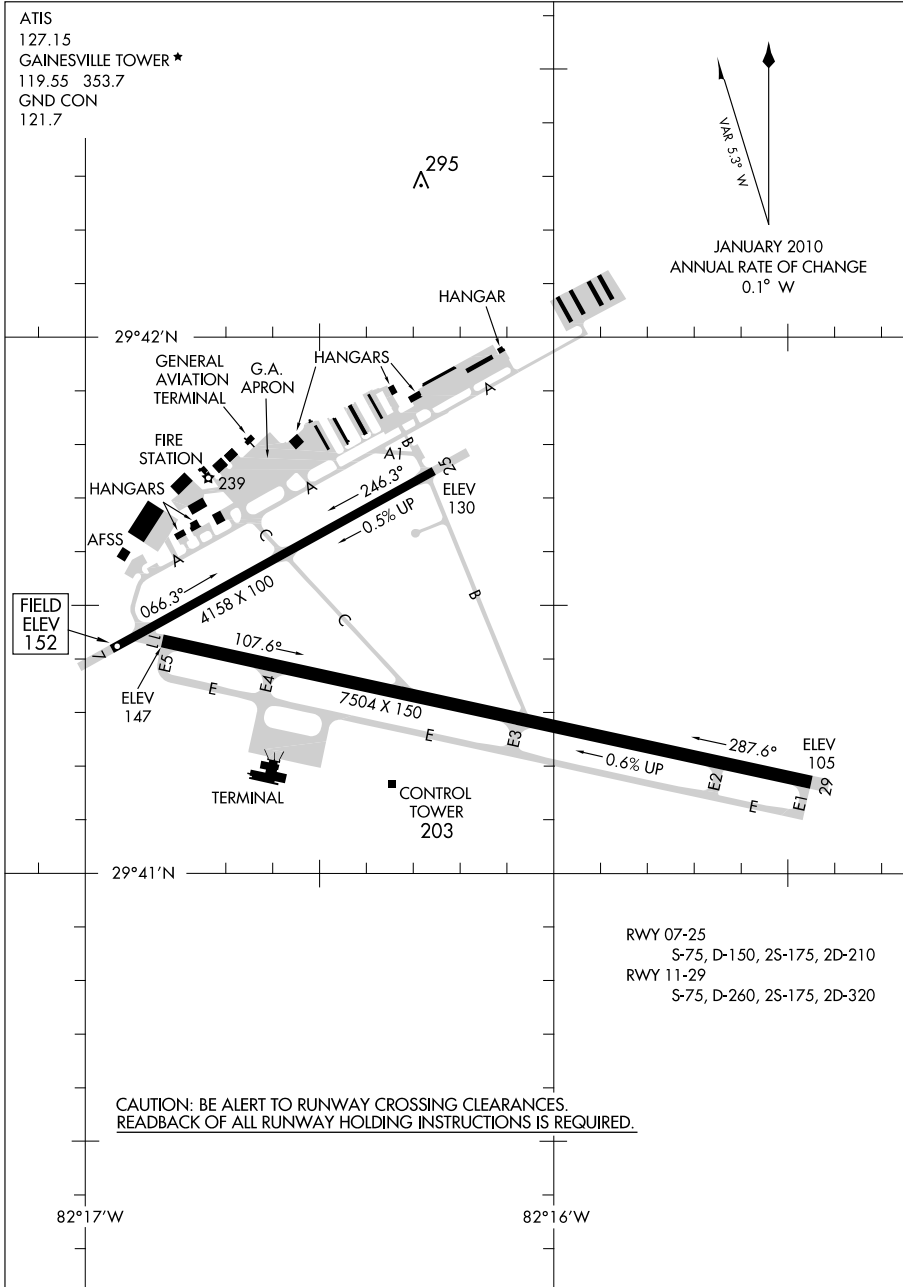


AIRPORT DIAGRAM FORT STEWART(HINESVILLE), GEORGIA
 10210 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)

10210

AIRPORT DIAGRAM

AL-973 (FAA)

GAINESVILLE RGNL (GNV)
GAINESVILLE, FLORIDA

AIRPORT DIAGRAM

10210

GAINESVILLE, FLORIDA
GAINESVILLE RGNL (GNV)

SE. 23 SEP 2010 to 18 NOV 2010

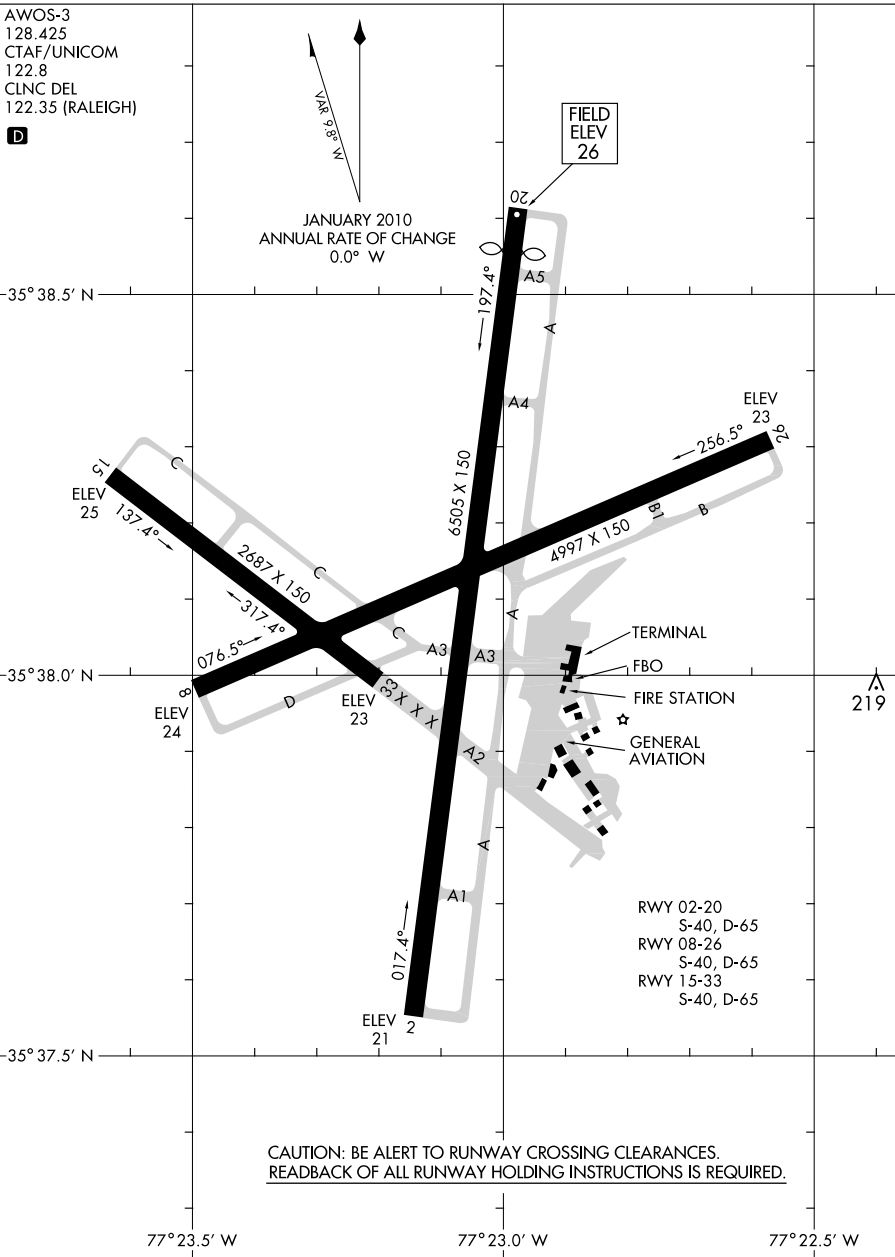
GREENSBORO, NORTH CAROLINA



SE, 23 SEP 2010 to 18 NOV 2010

10210
AIRPORT DIAGRAM

AL-5521 (FAA) GREENVILLE/PITT-GREENVILLE (PGV)
GREENVILLE, NORTH CAROLINA



AIRPORT DIAGRAM
10210

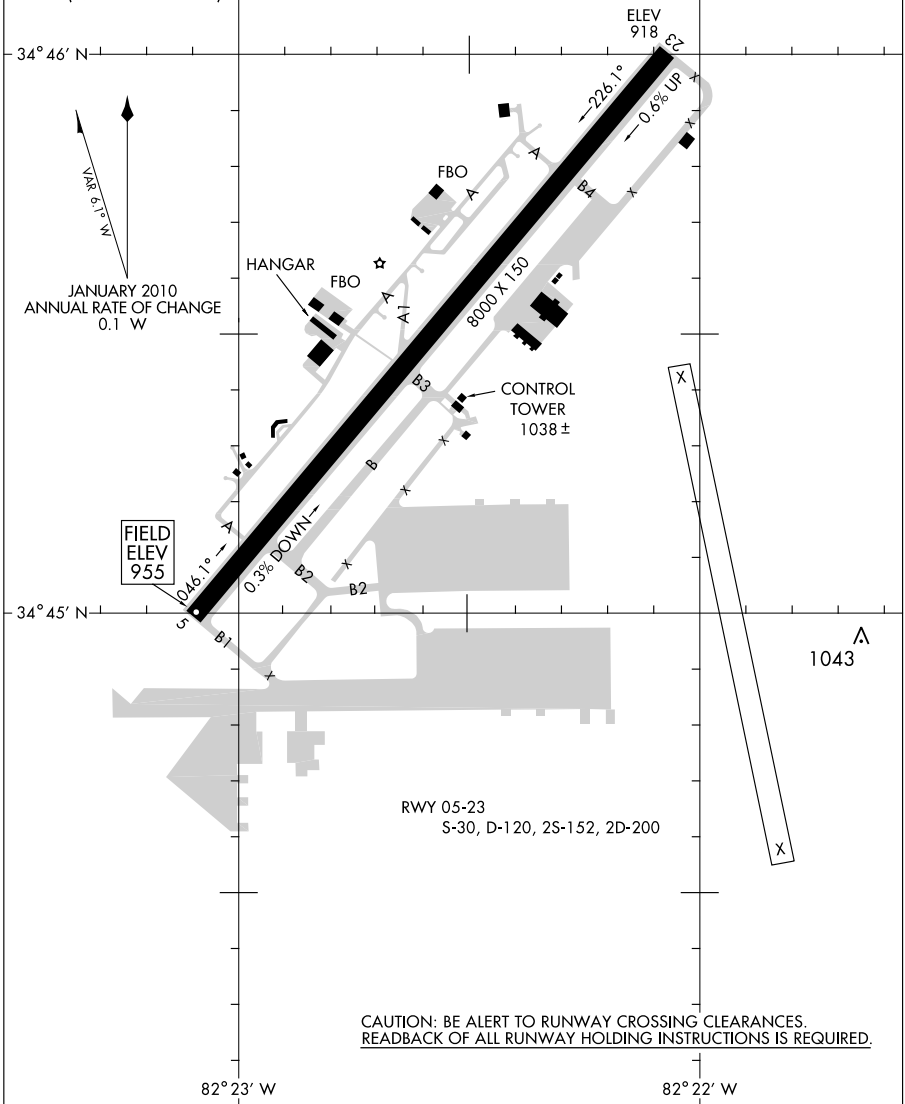
GREENVILLE, NORTH CAROLINA
GREENVILLE/PITT-GREENVILLE (PGV)

10210

AIRPORT DIAGRAM

GREENVILLE/ DONALDSON CENTER (GYH)
AL-179 (FAA) GREENVILLE, SOUTH CAROLINA

AWOS-3
127.325
DONALDSON TOWER ★
133.325 269.25
GND CON
121.4
CLNC DEL
121.4
125.95 (When Tower Closed)



AIRPORT DIAGRAM

10210

GREENVILLE, SOUTH CAROLINA
GREENVILLE/ DONALDSON CENTER (GYH)

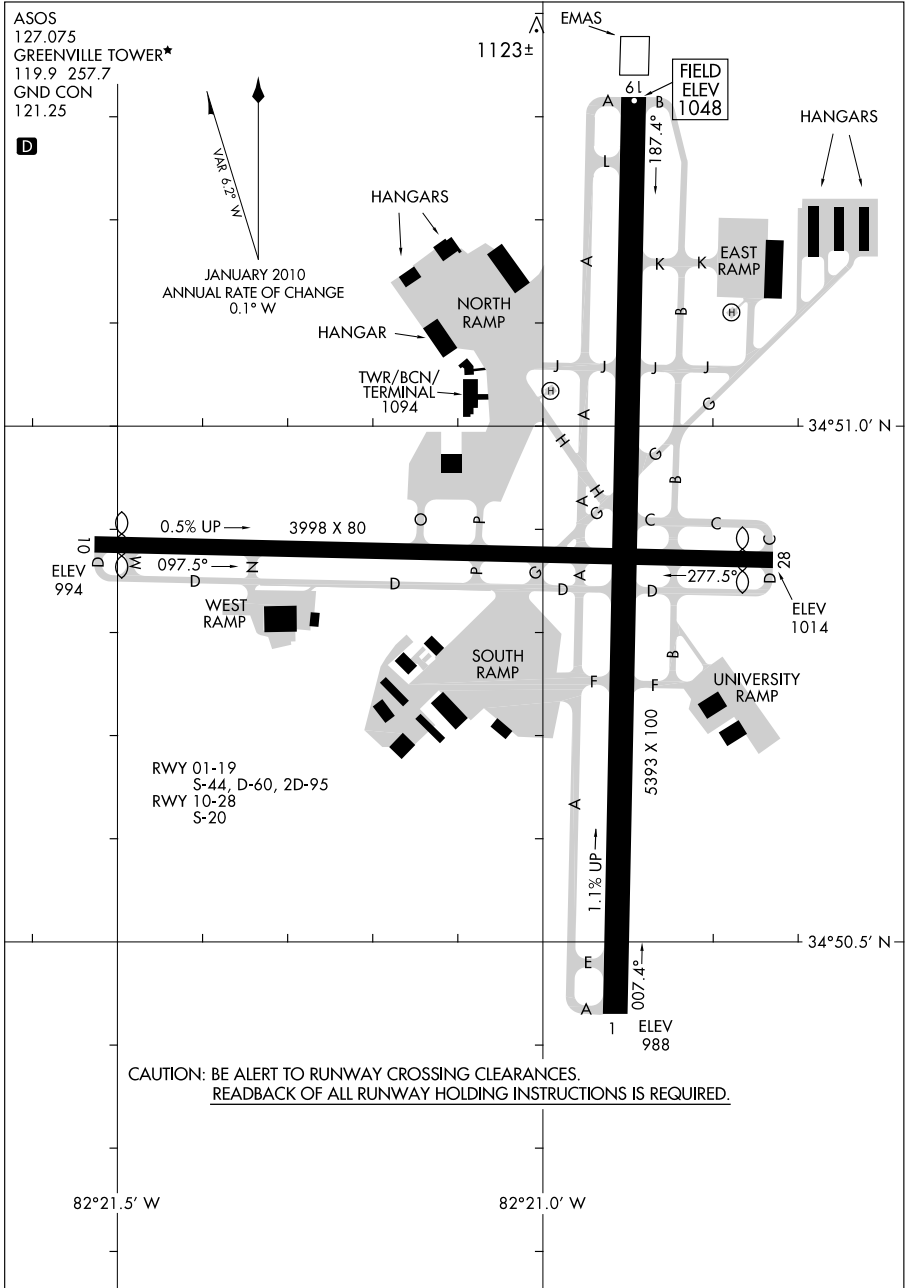
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-180 (FAA)

GREENVILLE DOWNTOWN (GMU)
GREENVILLE, SOUTH CAROLINA



AIRPORT DIAGRAM

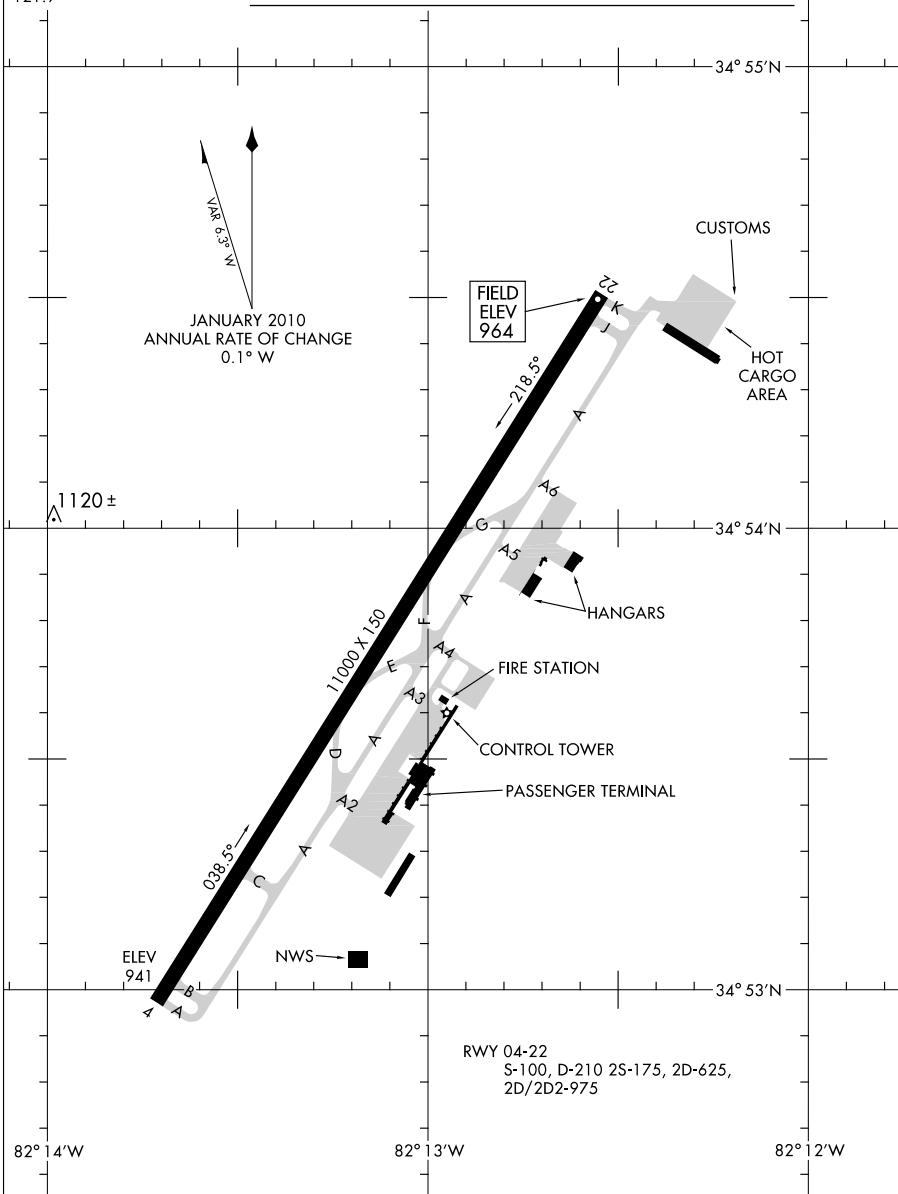
10210

GREENVILLE, SOUTH CAROLINA
GREENVILLE DOWNTOWN (GMU)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)
AL-5124 (FAA)
GREER, SOUTH CAROLINAATIS 134.25
GREER TOWER ★
120.1 257.8
GND CON
121.9CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

GREER, SOUTH CAROLINA
GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)

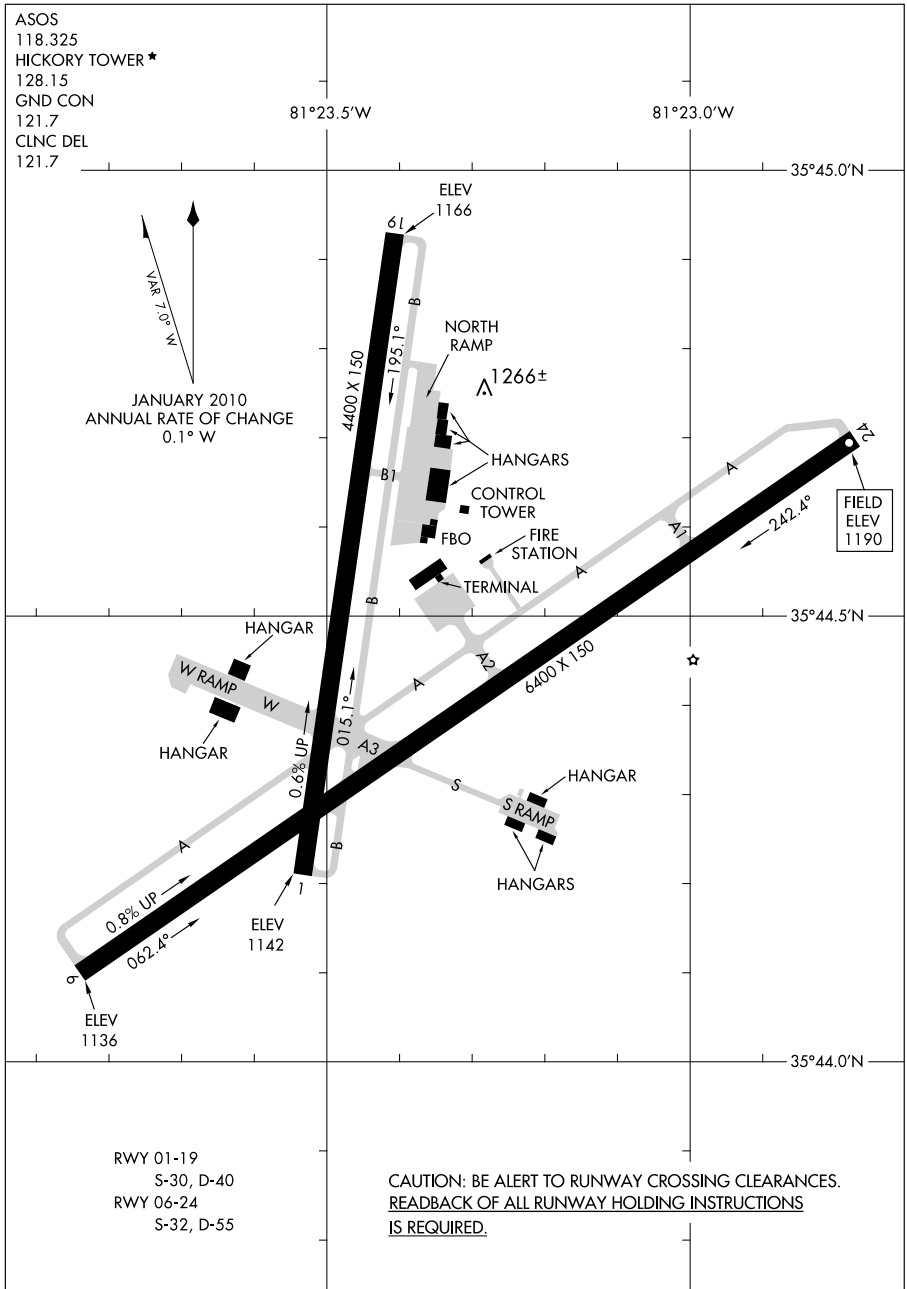
10210

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-706 (FAA)

HICKORY RGNL (HKY)
HICKORY, NORTH CAROLINA



AIRPORT DIAGRAM

HICKORY, NORTH CAROLINA
HICKORY RGNL (HKY)

SE. 23 SEP 2010 to 18 NOV 2010

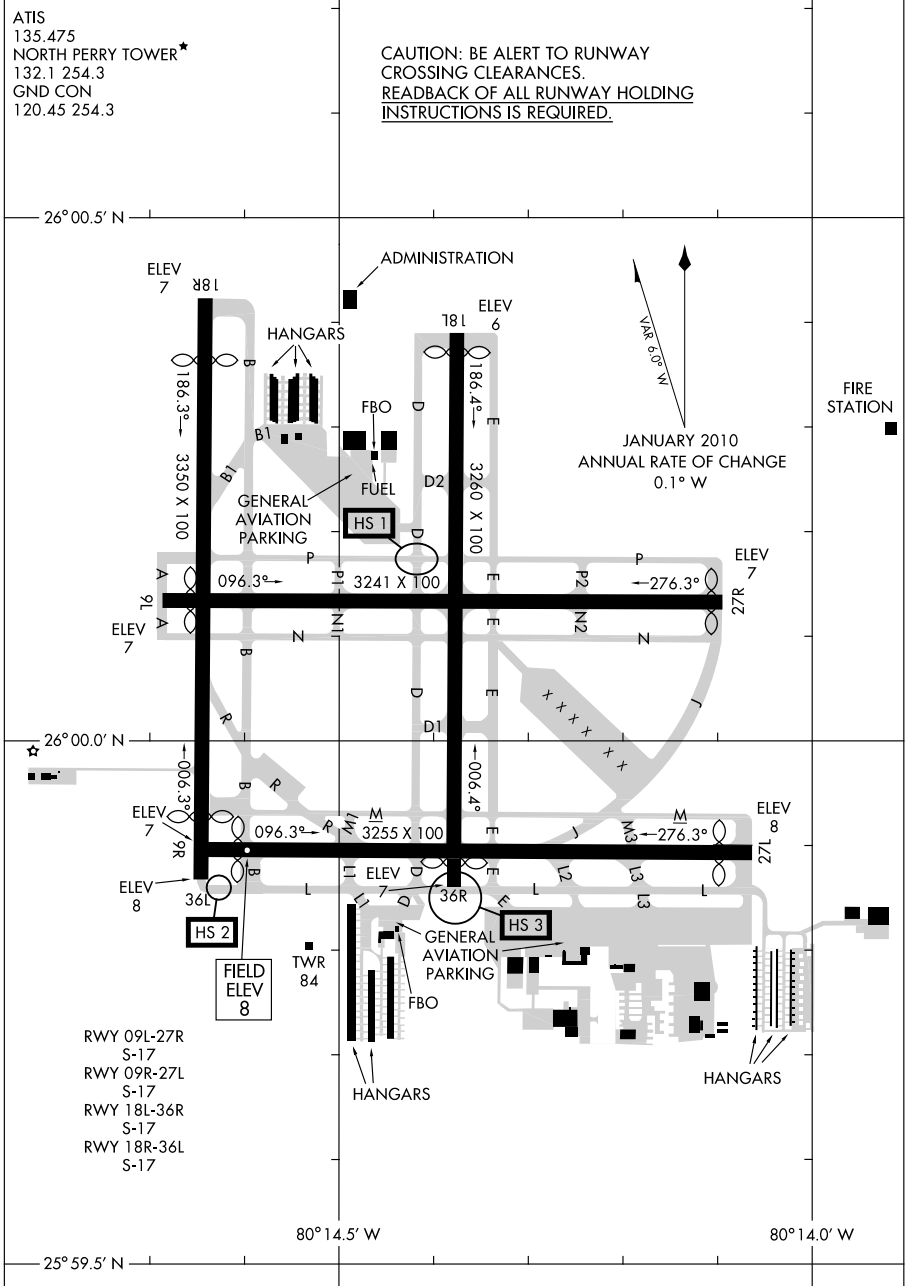
10266

AIRPORT DIAGRAM

AL-5606 (FAA)

HOLLYWOOD /NORTH PERRY (HWO)

HOLLYWOOD, FLORIDA



AIRPORT DIAGRAM

HOLLYWOOD, FLORIDA
HOLLYWOOD /NORTH PERRY (HWO)

10266

SE. 23 SEP 2010 to 18 NOV 2010

08241

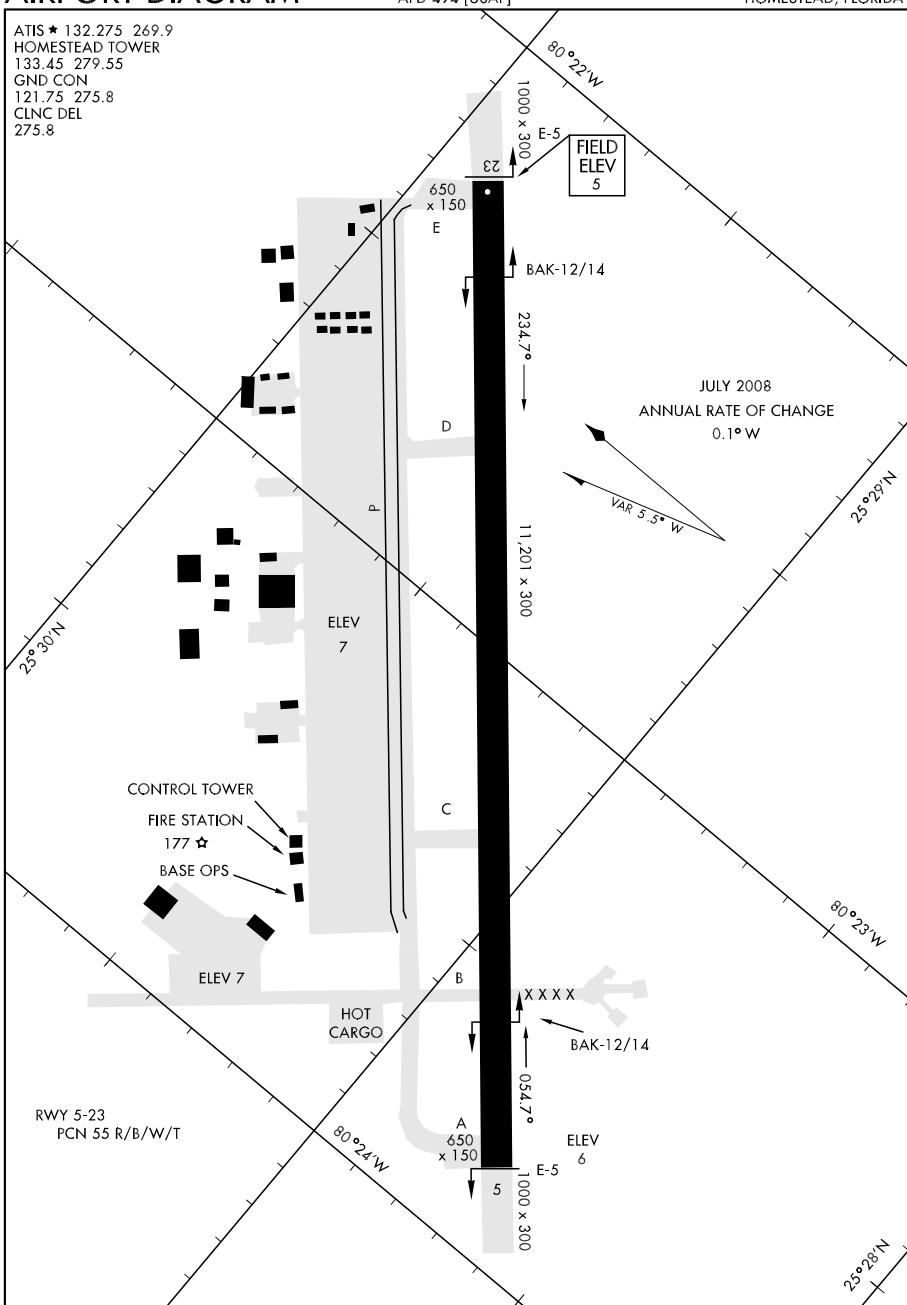
AIRPORT DIAGRAM

HOMESTEAD ARB (KHST)

HOMESTEAD, FLORIDA

AFD-494 [USAF]

ATIS ★ 132.275 269.9
HOMESTEAD TOWER
133.45 279.55
GND CON
121.75 275.8
CLNC DEL
275.8



AIRPORT DIAGRAM

HOMESTEAD, FLORIDA

HOMESTEAD ARB (KHST)

SE. 23 SEP 2010 to 18 NOV 2010

09351

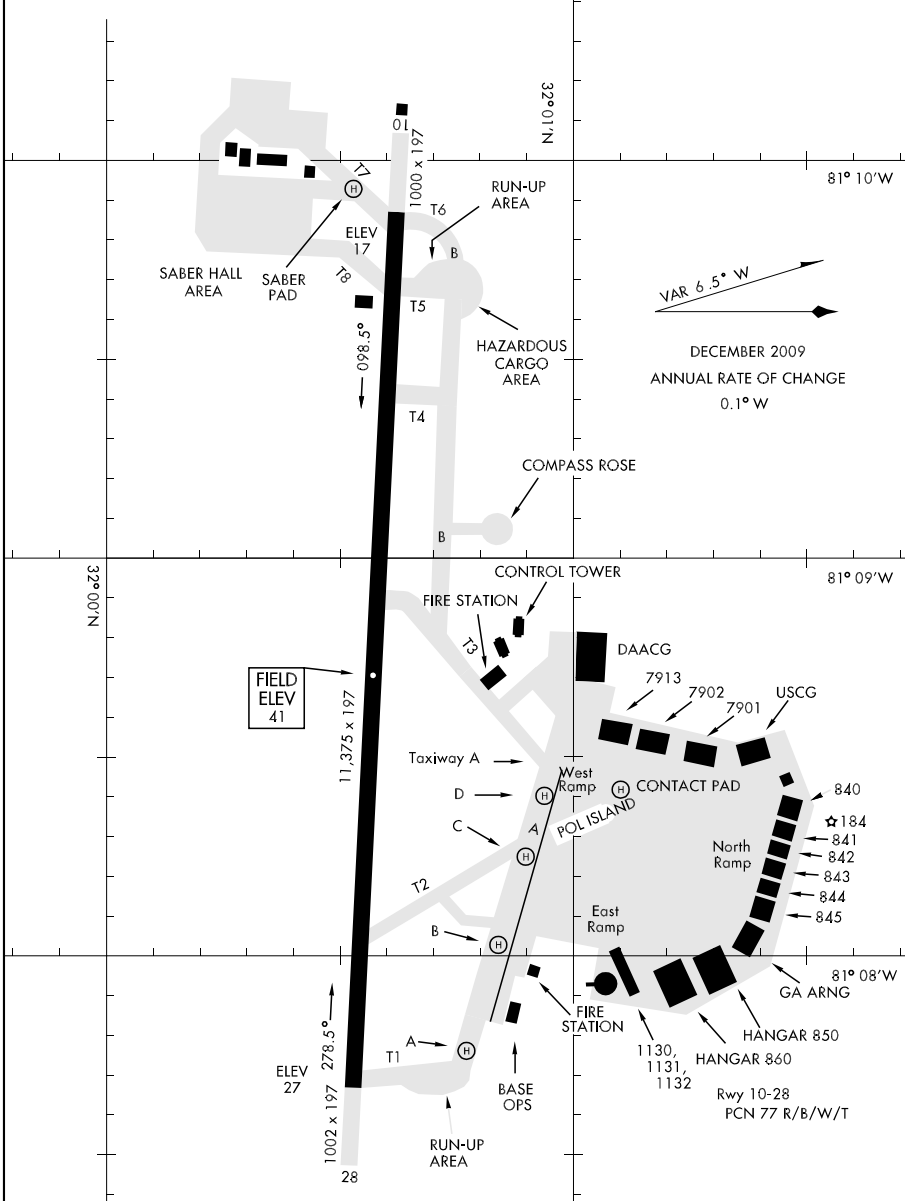
AIRPORT DIAGRAM

AFD-381 [USA]

HUNTER AAF (KSVN)

SAVANNAH, GEORGIA

ATIS 127.525 323.125
HUNTER TOWER ★
124.975 279.575
GND CON
121.8 291.675



AIRPORT DIAGRAM

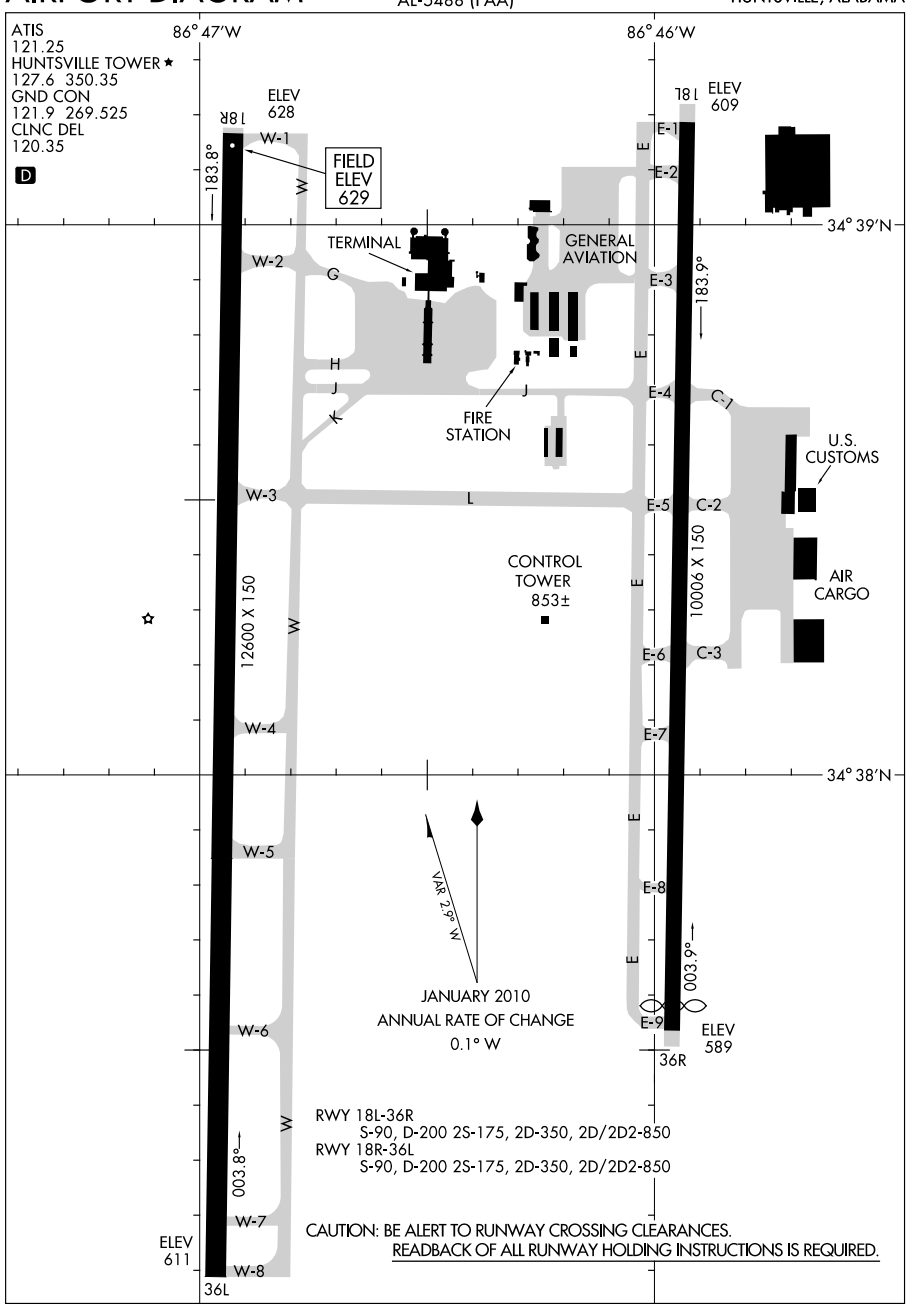
SAVANNAH, GEORGIA

HUNTER AAF (KSVN)

10210

AIRPORT DIAGRAM

HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)
AL-5488 (FAA) HUNTSVILLE, ALABAMA



AIRPORT DIAGRAM

10210

HUNTSVILLE, ALABAMA
HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)

SE. 23 SEP 2010 to 18 NOV 2010

09015

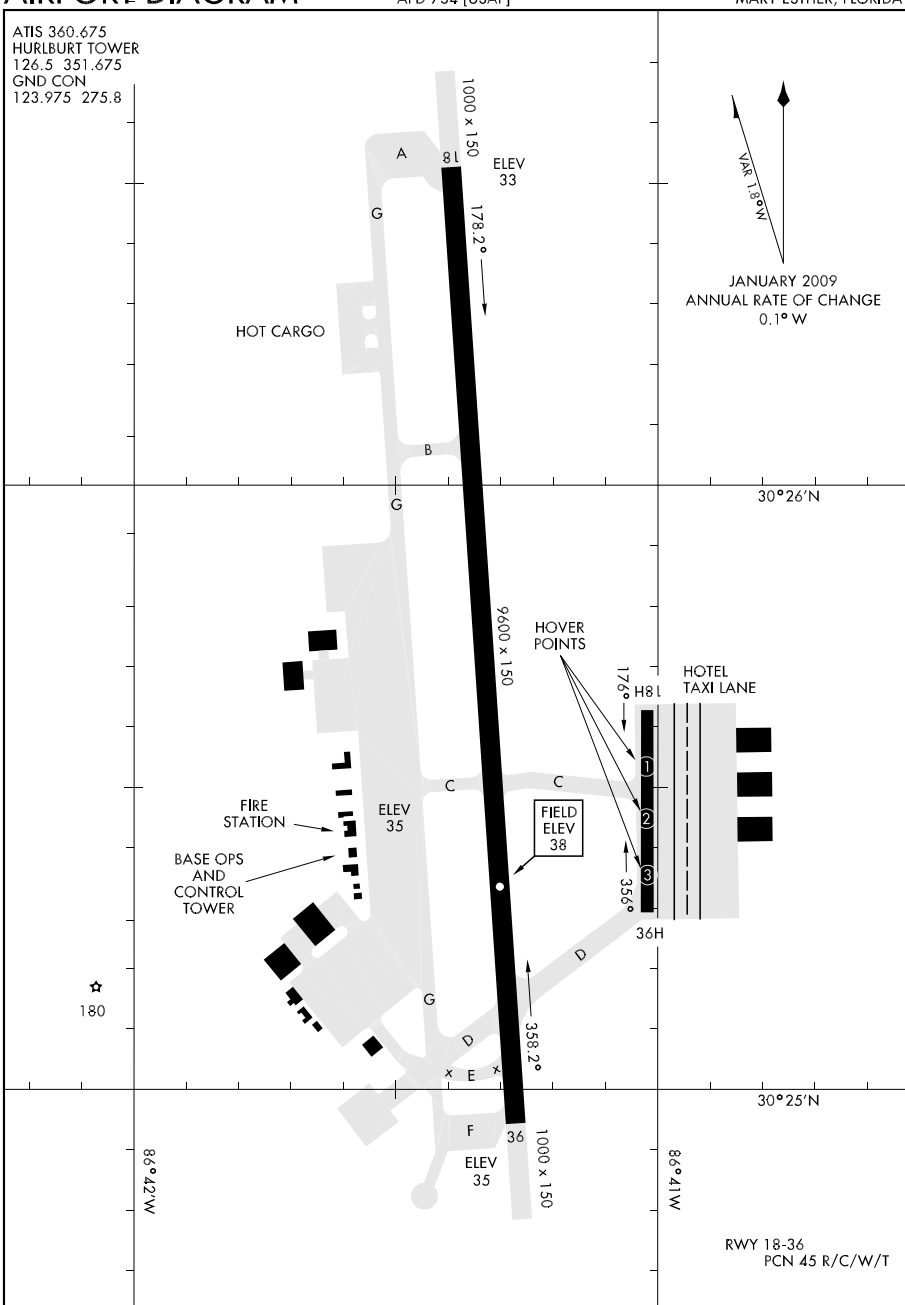
AIRPORT DIAGRAM

AFD-734 [USAF]

HURLBURT FLD (KHRT)

MARY ESTHER, FLORIDA

ATIS 360.675
HURLBURT TOWER
126.5 351.675
GND CON
123.975 275.8



AIRPORT DIAGRAM

MARY ESTHER, FLORIDA

HURLBURT FLD (KHRT)

10210

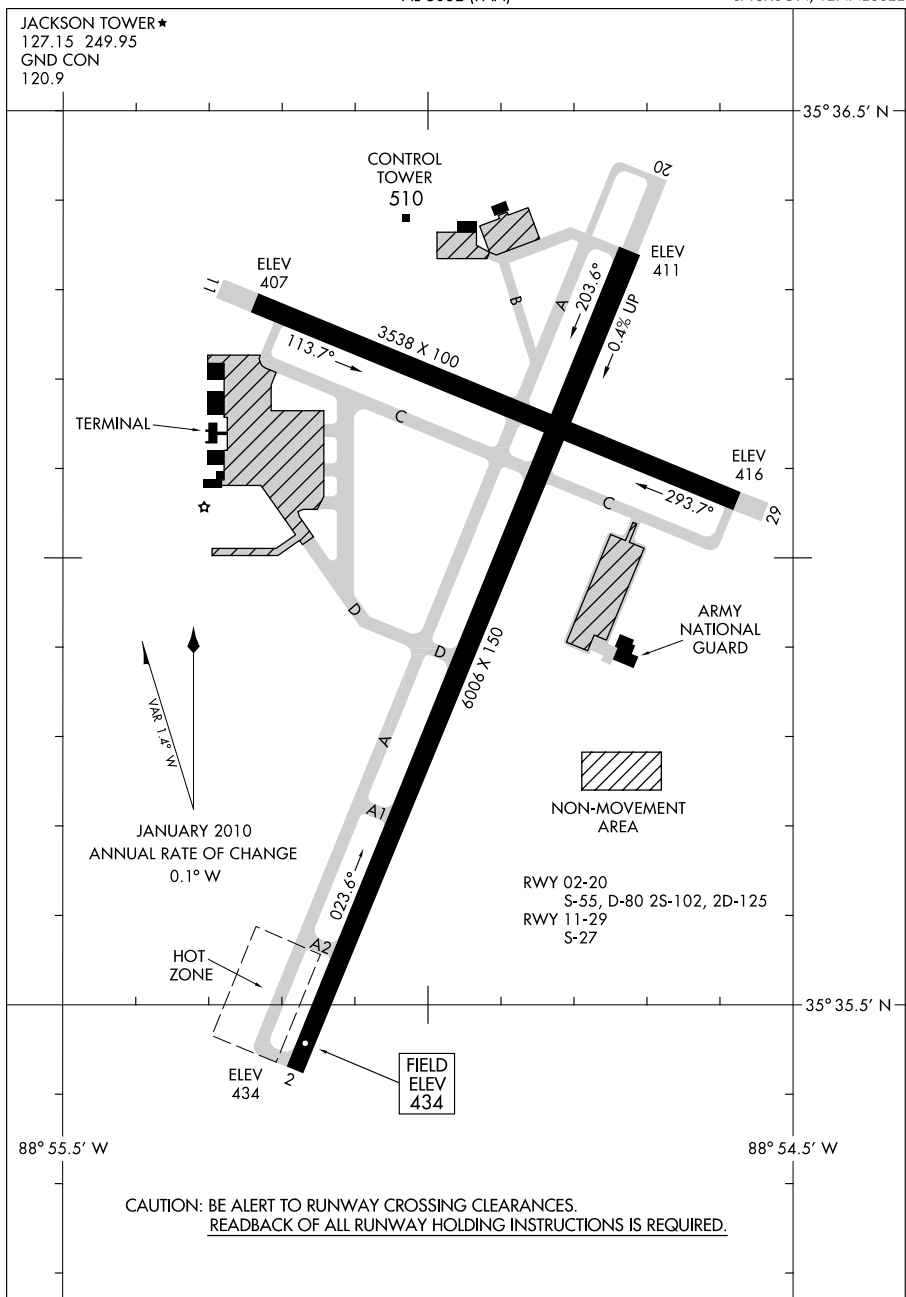
AIRPORT DIAGRAM

AL-5062 (FAA)

JACKSON/McKELLAR-SIPES RGNL (MKL)

JACKSON, TENNESSEE

JACKSON TOWER ★
127.15 249.95
GND CON
120.9



AIRPORT DIAGRAM

10210

JACKSON, TENNESSEE
JACKSON/McKELLAR-SIPES RGNL (MKL)

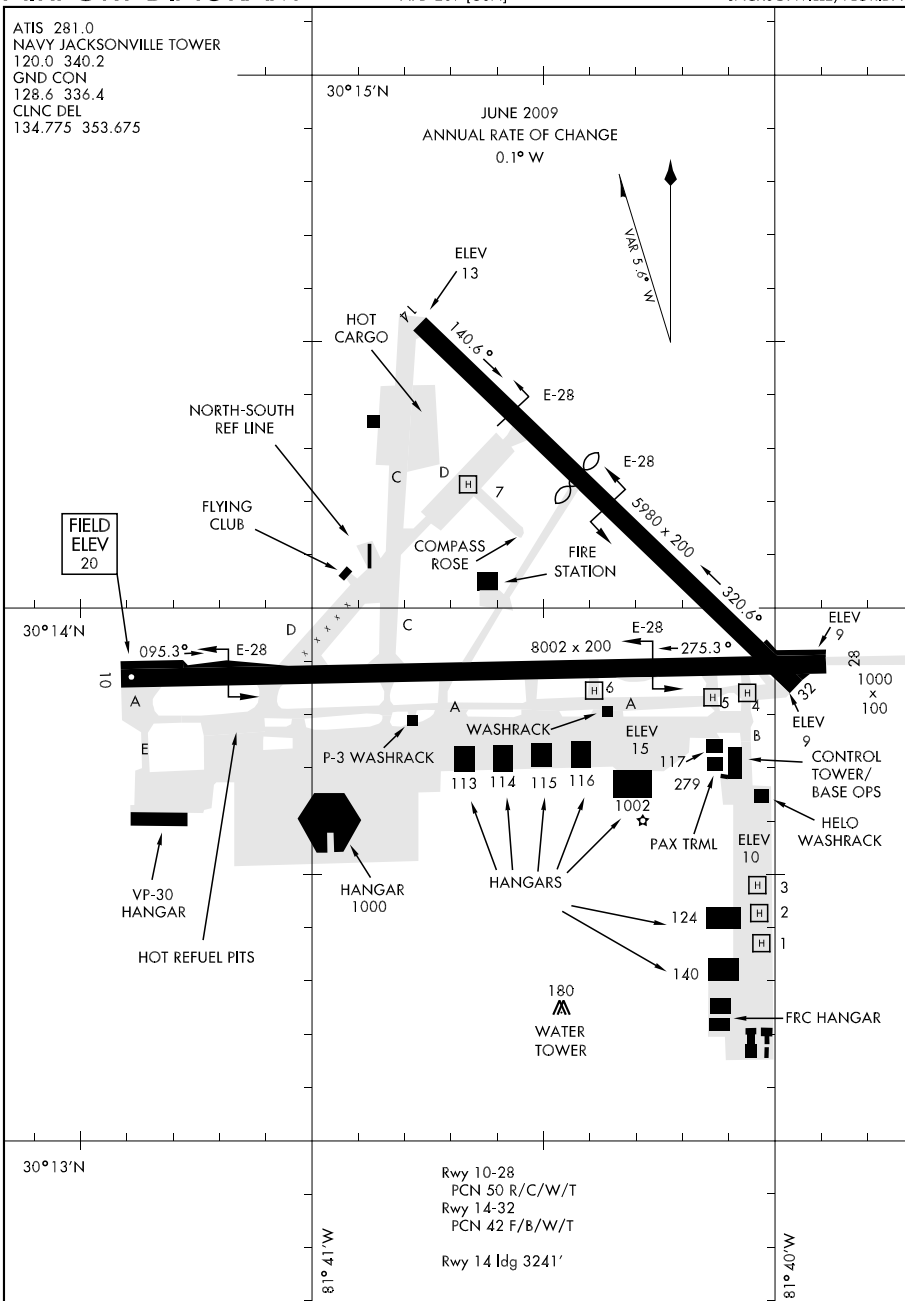
SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA

AFD-209 [USN]

ATIS 281.0
NAVY JACKSONVILLE TOWER
120.0 340.2
GND CON
128.6 336.4
CLNC DEL
134.775 353.675



AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA
JACKSONVILLE NAS (KNIP)

SE, 23 SEP 2010 to 18 NOV 2010

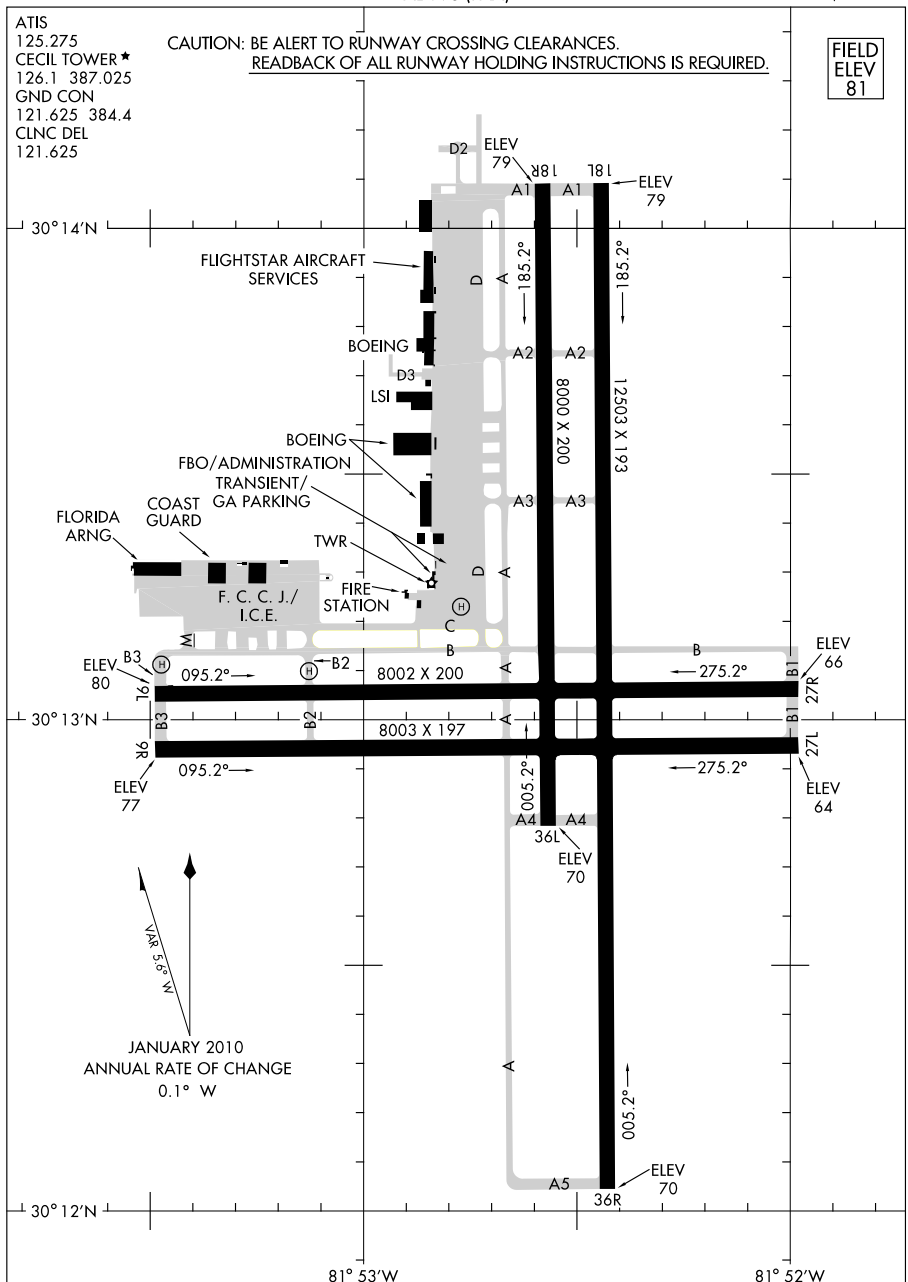
10266

AIRPORT DIAGRAM

AL-998 (FAA)

JACKSONVILLE/ CECIL FIELD (VQQ)

JACKSONVILLE, FLORIDA



AIRPORT DIAGRAM

10266

JACKSONVILLE, FLORIDA
JACKSONVILLE/ CECIL FIELD (VQQ)

SE. 23 SEP 2010 to 18 NOV 2010

10210

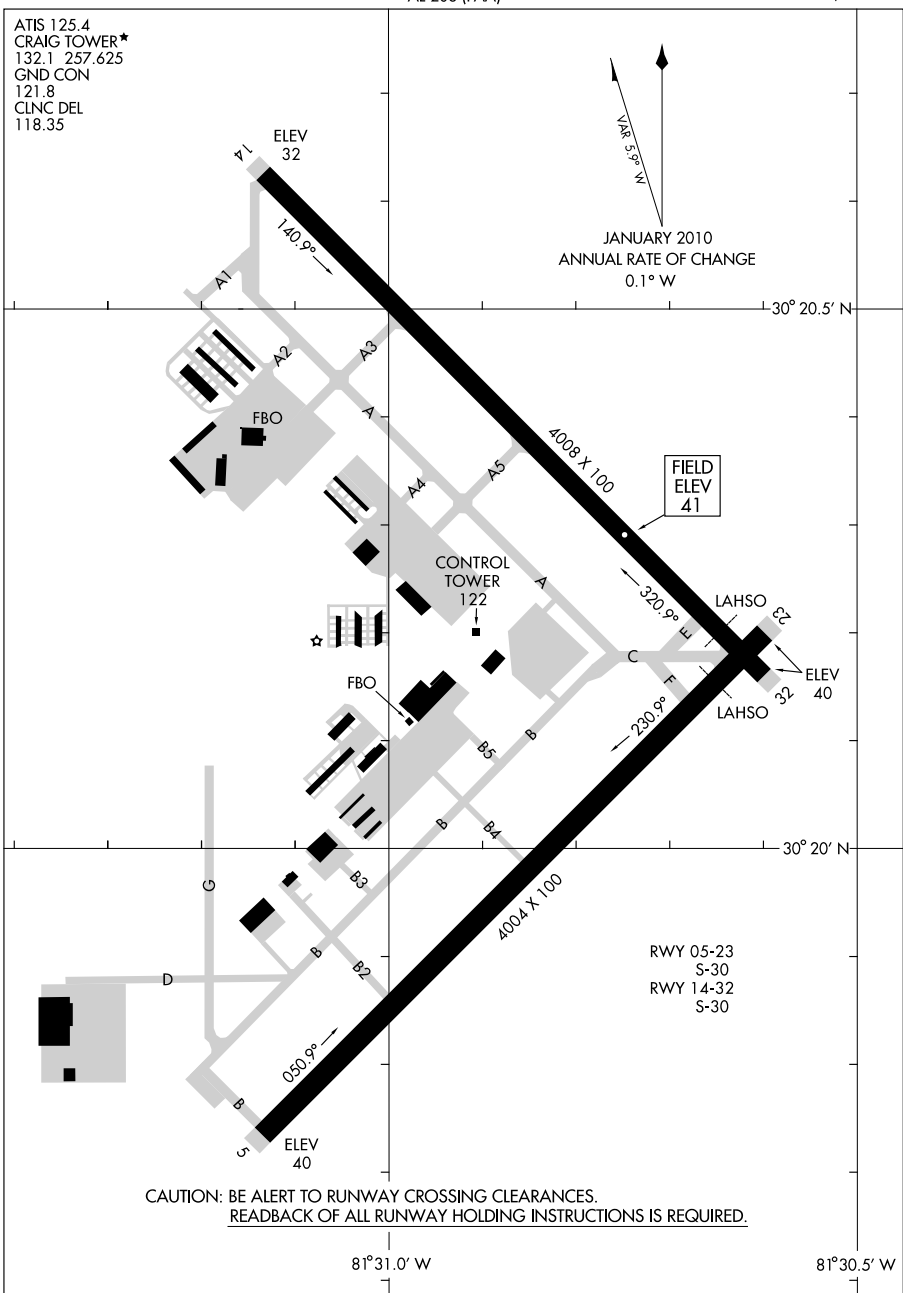
AIRPORT DIAGRAM

AL-208 (FAA)

JACKSONVILLE/CRAIG MUNI (CRG)

JACKSONVILLE, FLORIDA

ATIS 125.4
 CRAIG TOWER★
 132.1 257.625
 GND CON
 121.8
 CLNC DEL
 118.35



AIRPORT DIAGRAM

10210

JACKSONVILLE, FLORIDA
 JACKSONVILLE/CRAIG MUNI (CRG)

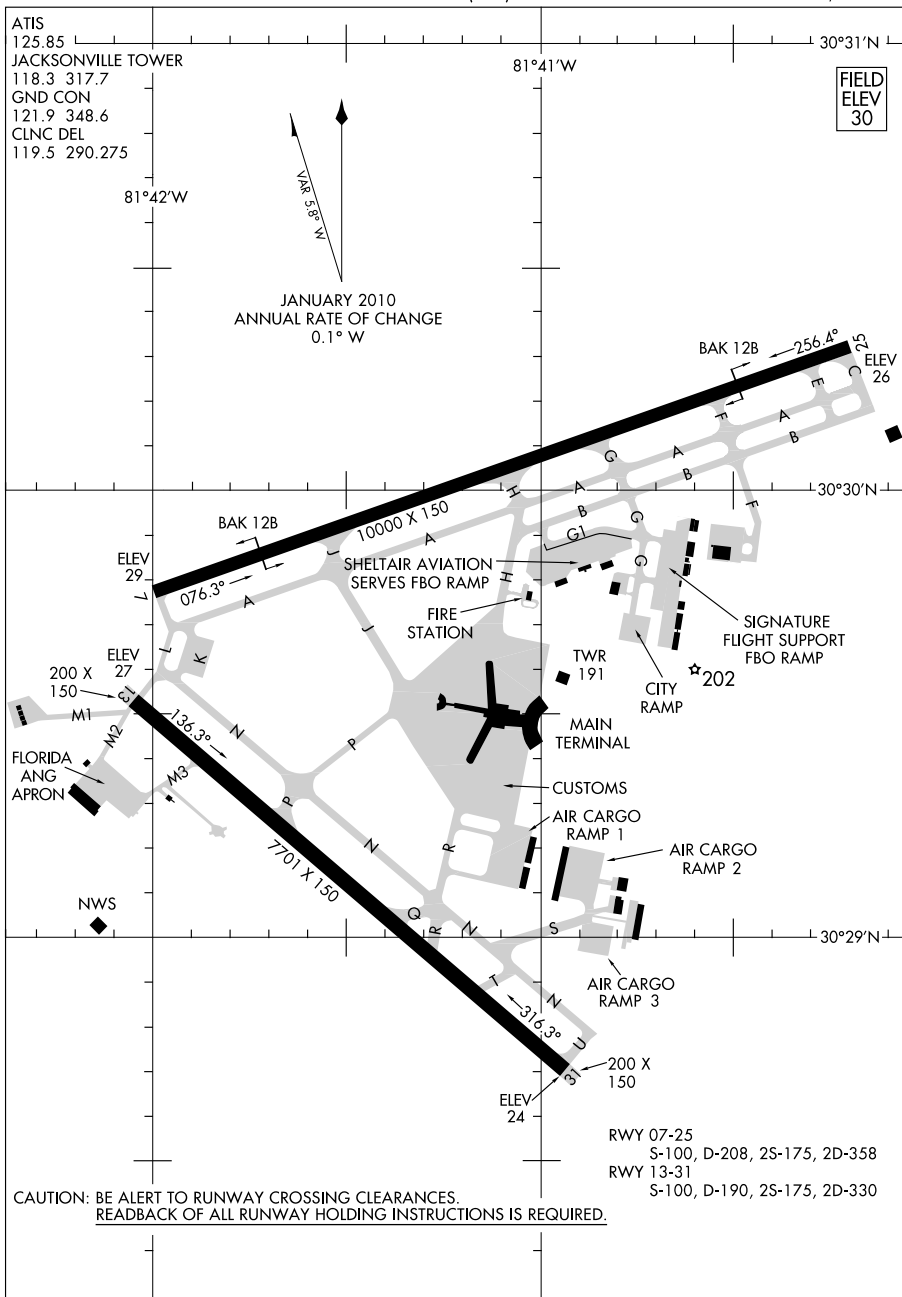
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-5570 (FAA)

JACKSONVILLE INTL (JAX)
JACKSONVILLE, FLORIDA



AIRPORT DIAGRAM

10210

JACKSONVILLE, FLORIDA
JACKSONVILLE INTL (JAX)

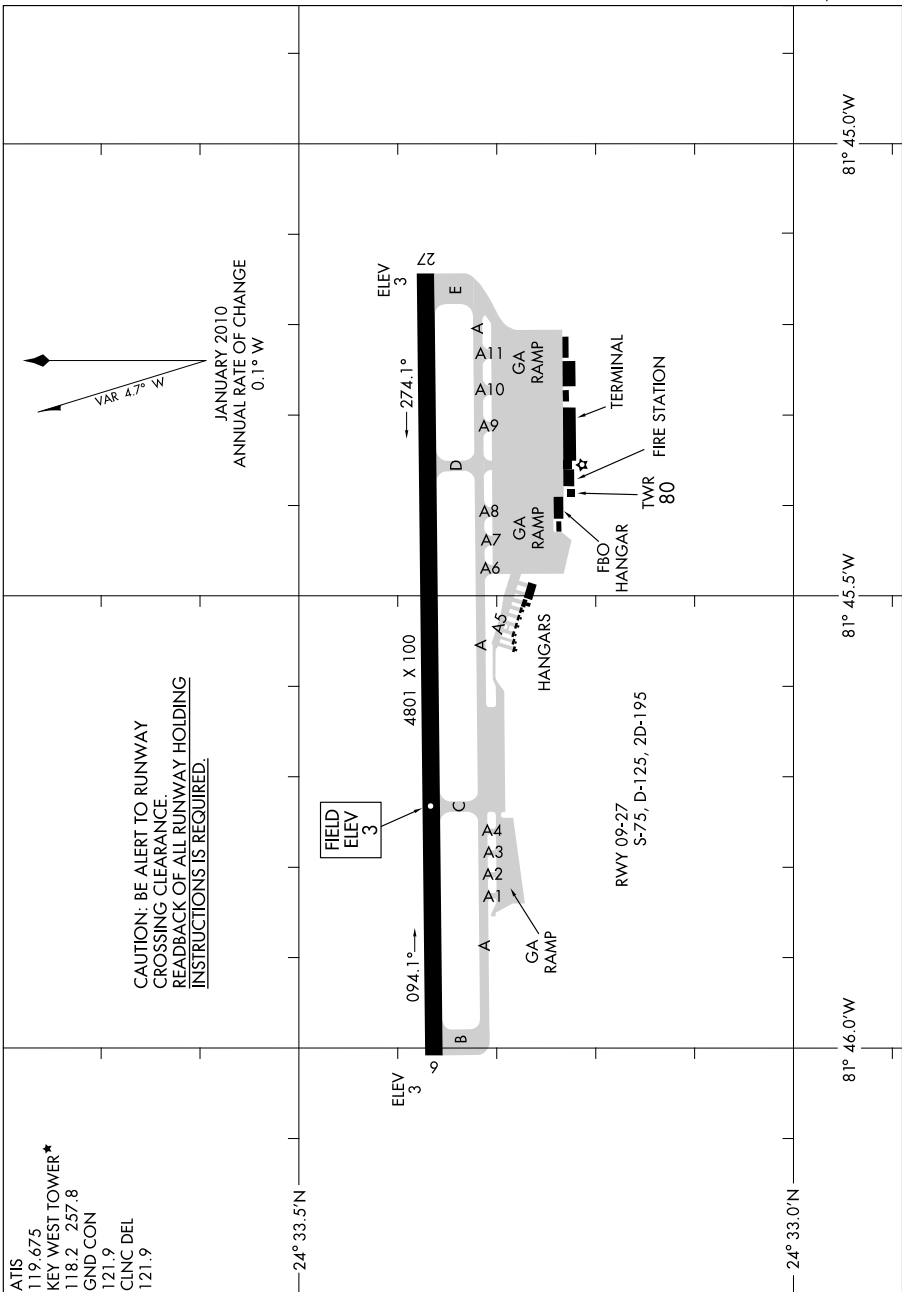
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-606 (FAA)

KEY WEST INTL (EYW)
KEY WEST, FLORIDA



AIRPORT DIAGRAM

10266

KEY WEST, FLORIDA
KEY WEST INTL (EYW)

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

AFD-214 [USN]

KEY WEST, FLORIDA

OCTOBER 2008
ANNUAL RATE OF CHANGE
0.1°W



RWY 7-25
PCN 59 R/B/W/T
RWY 3-21
PCN 60 F/A/W/T
RWY 13-31
PCN 51 F/A/W/T

AIRPORT DIAGRAM

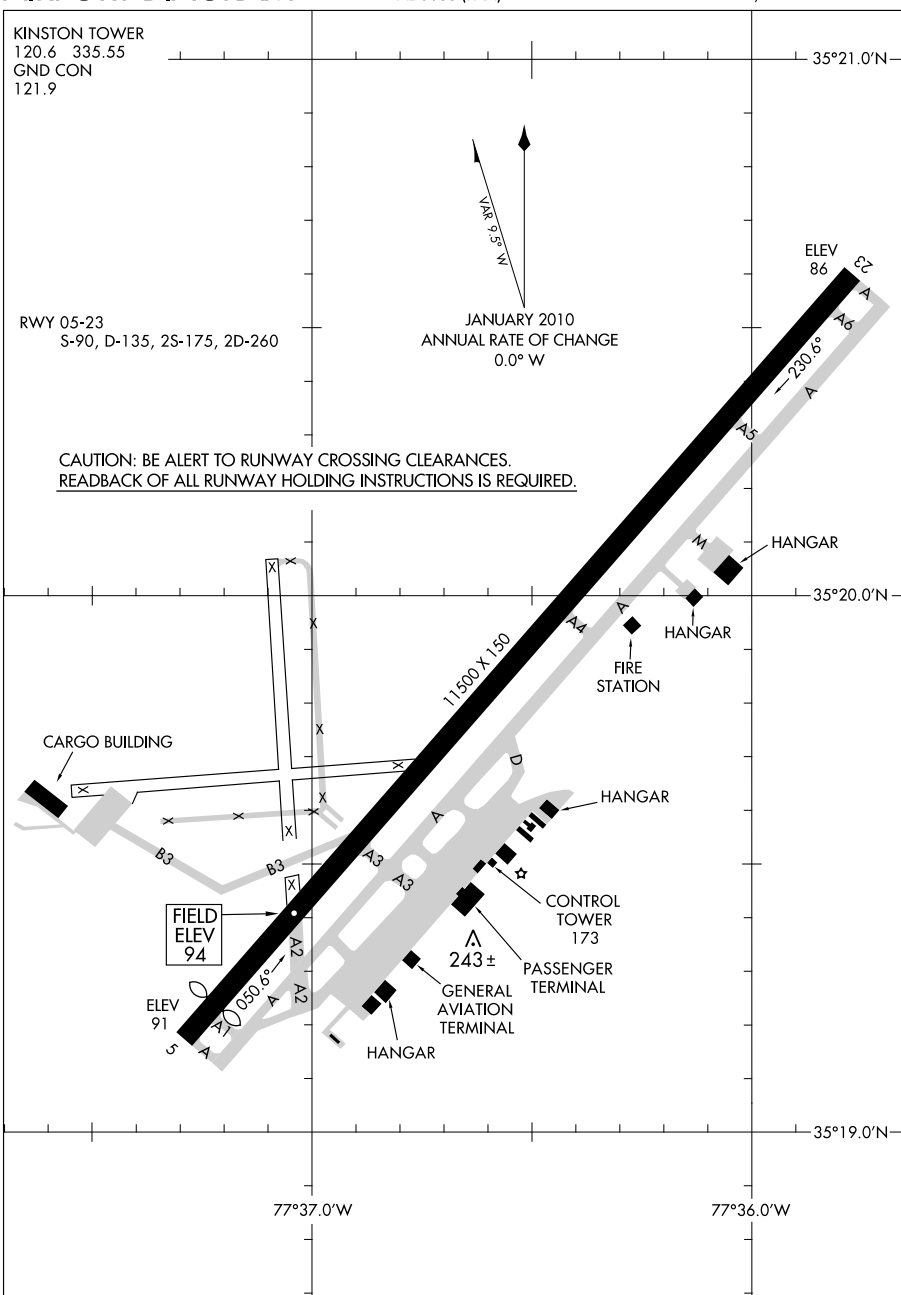
KEY WEST, FLORIDA

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)
AL-5038 (FAA) KINSTON, NORTH CAROLINA



AIRPORT DIAGRAM

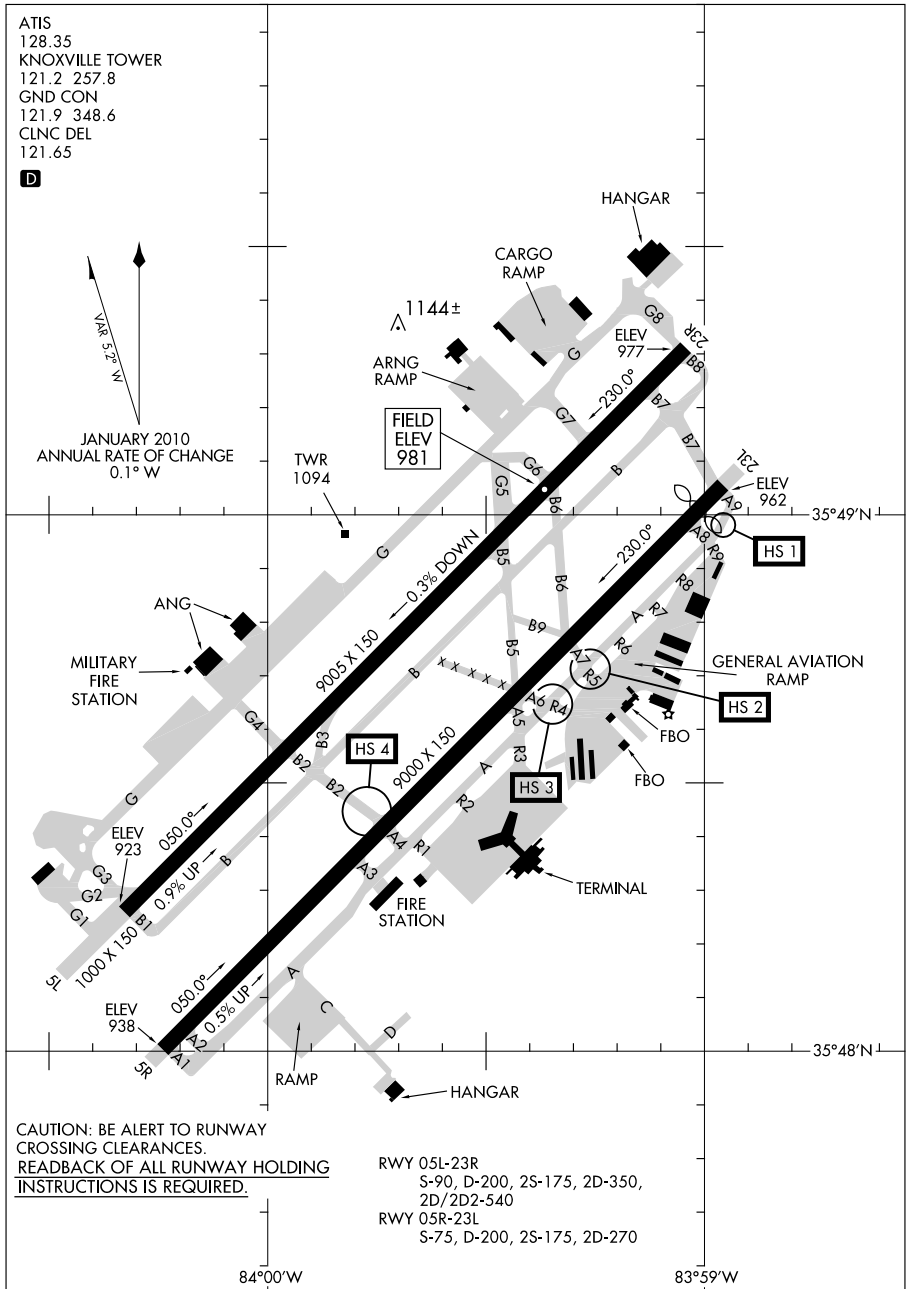
KINSTON, NORTH CAROLINA
KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)

10266

AIRPORT DIAGRAM

AL-218 (FAA)

KNOXVILLE / MCGHEE-TYSON (TYS)
KNOXVILLE, TENNESSEE



AIRPORT DIAGRAM

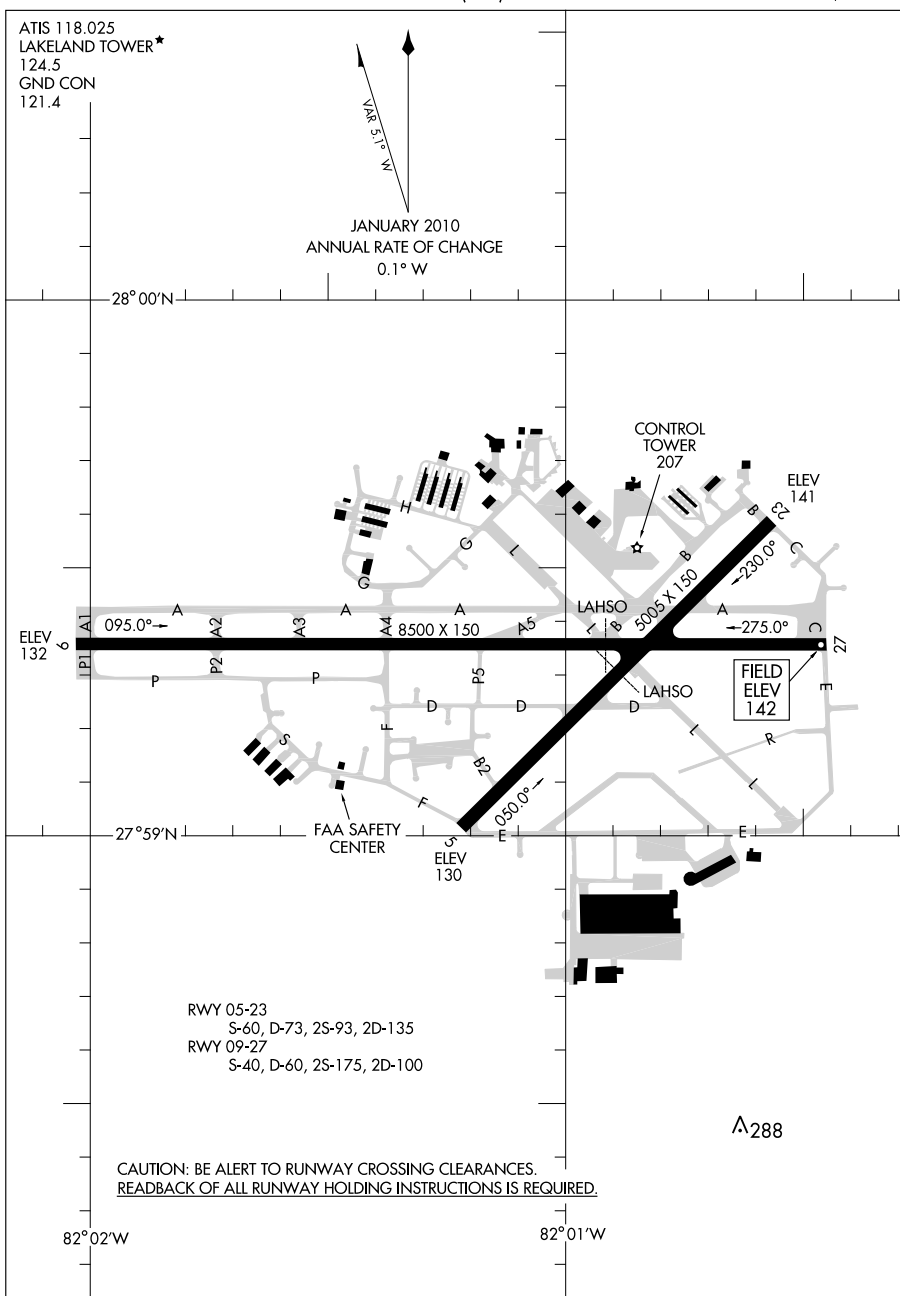
10266

KNOXVILLE, TENNESSEE
KNOXVILLE / MCGHEE-TYSON (TYS)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

LAKELAND LINDER RGNL (LAL)
LAKELAND, FLORIDA

AIRPORT DIAGRAM

LAKELAND, FLORIDA
LAKELAND LINDER RGNL (LAL)

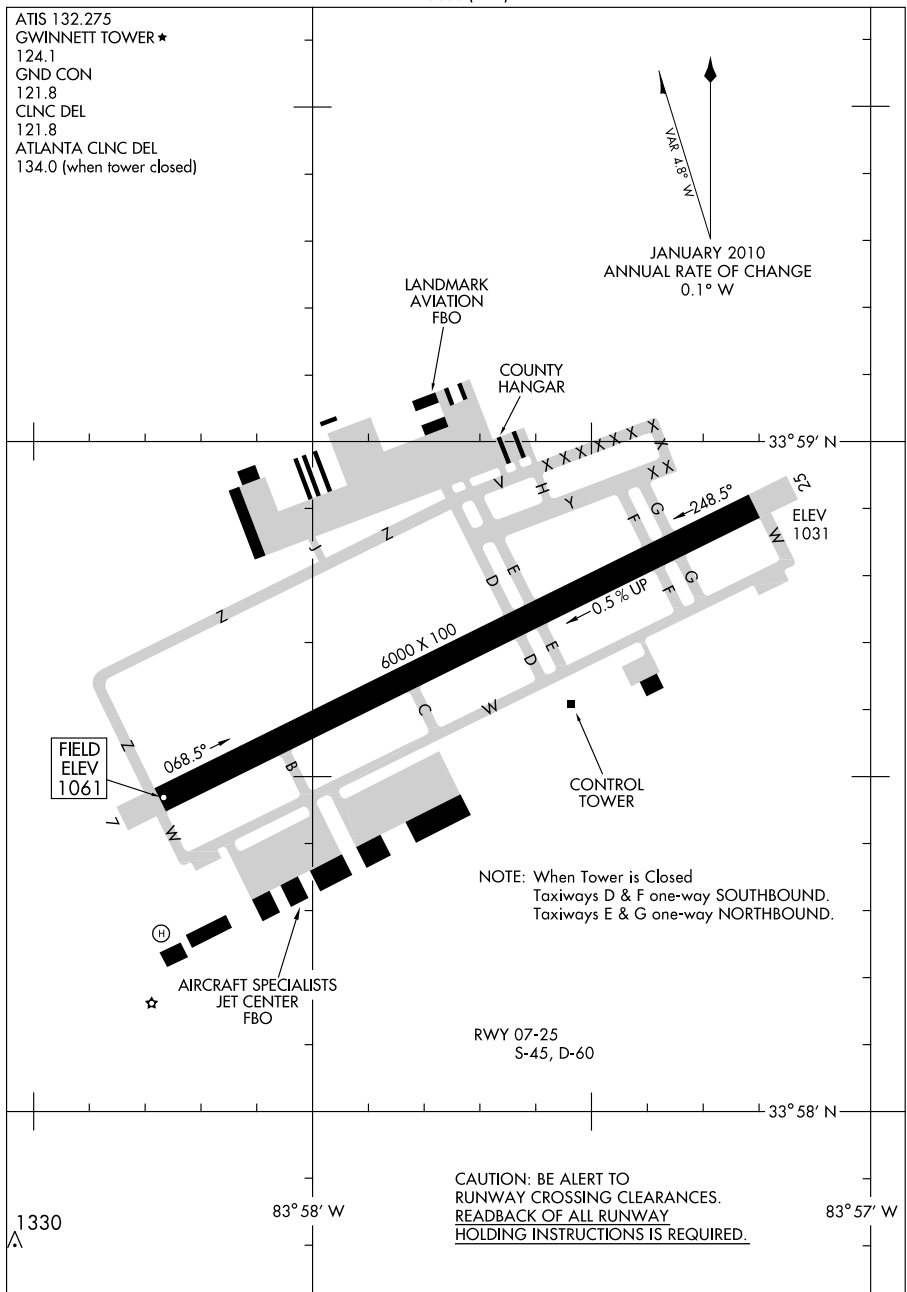
10210

10210

AIRPORT DIAGRAM

LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)
AL-5385 (FAA) LAWRENCEVILLE, GEORGIA

ATIS 132.275
GWINNETT TOWER ★
124.1
GND CON
121.8
CLNC DEL
121.8
ATLANTA CLNC DEL
134.0 (when tower closed)



AIRPORT DIAGRAM

10210

LAWRENCEVILLE, GEORGIA
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)

SE. 23 SEP 2010 to 18 NOV 2010

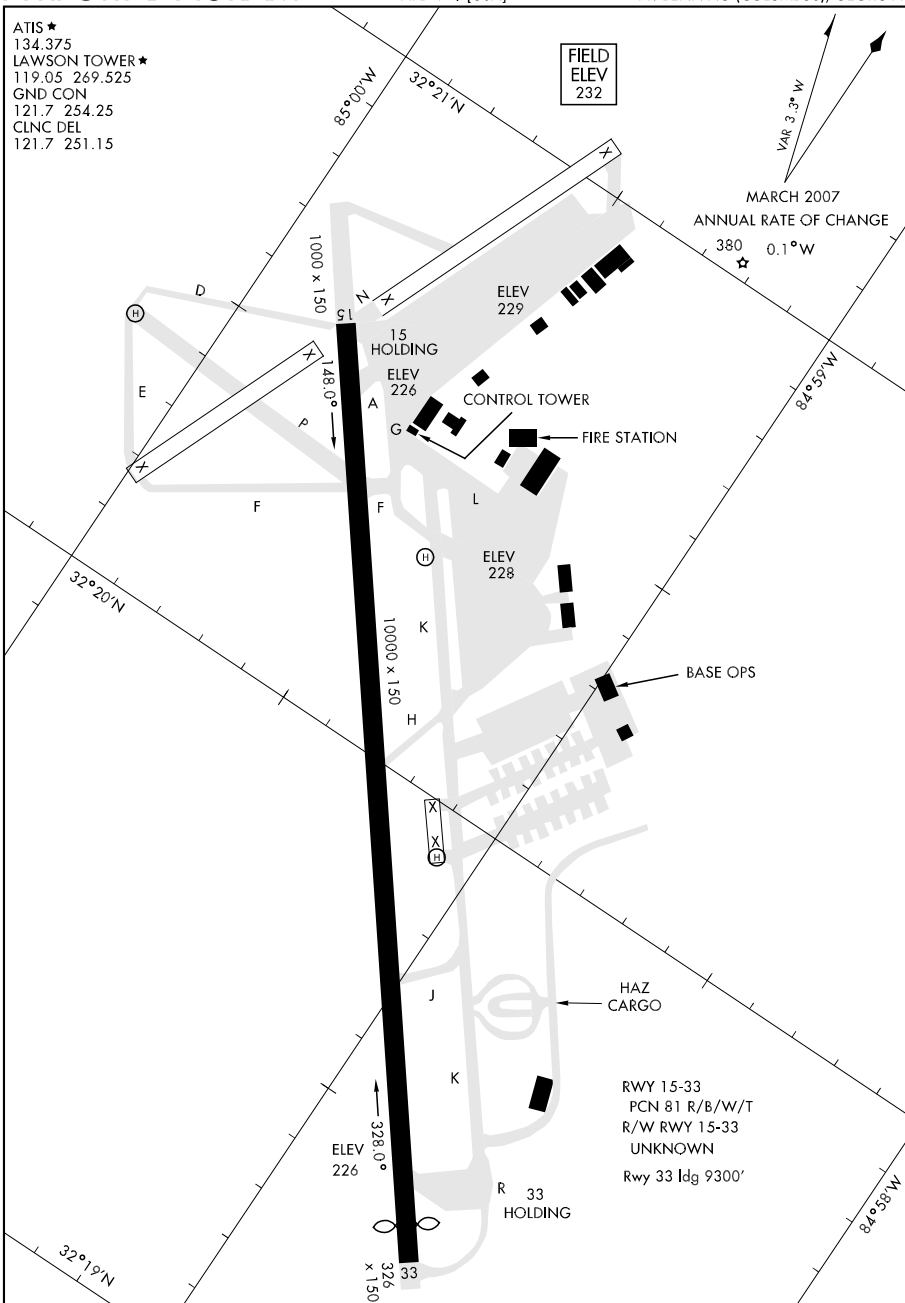
07074

AIRPORT DIAGRAM

AFD-146 [USA]

LAWSON AAF (KLSF)
FT. BENNING (COLUMBUS), GEORGIA

ATIS ★
134.375
LAWSON TOWER ★
119.05 269.525
GND CON
121.7 254.25
CLNC DEL
121.7 251.15



AIRPORT DIAGRAM

FT. BENNING (COLUMBUS), GEORGIA
LAWSON AAF (KLSF)

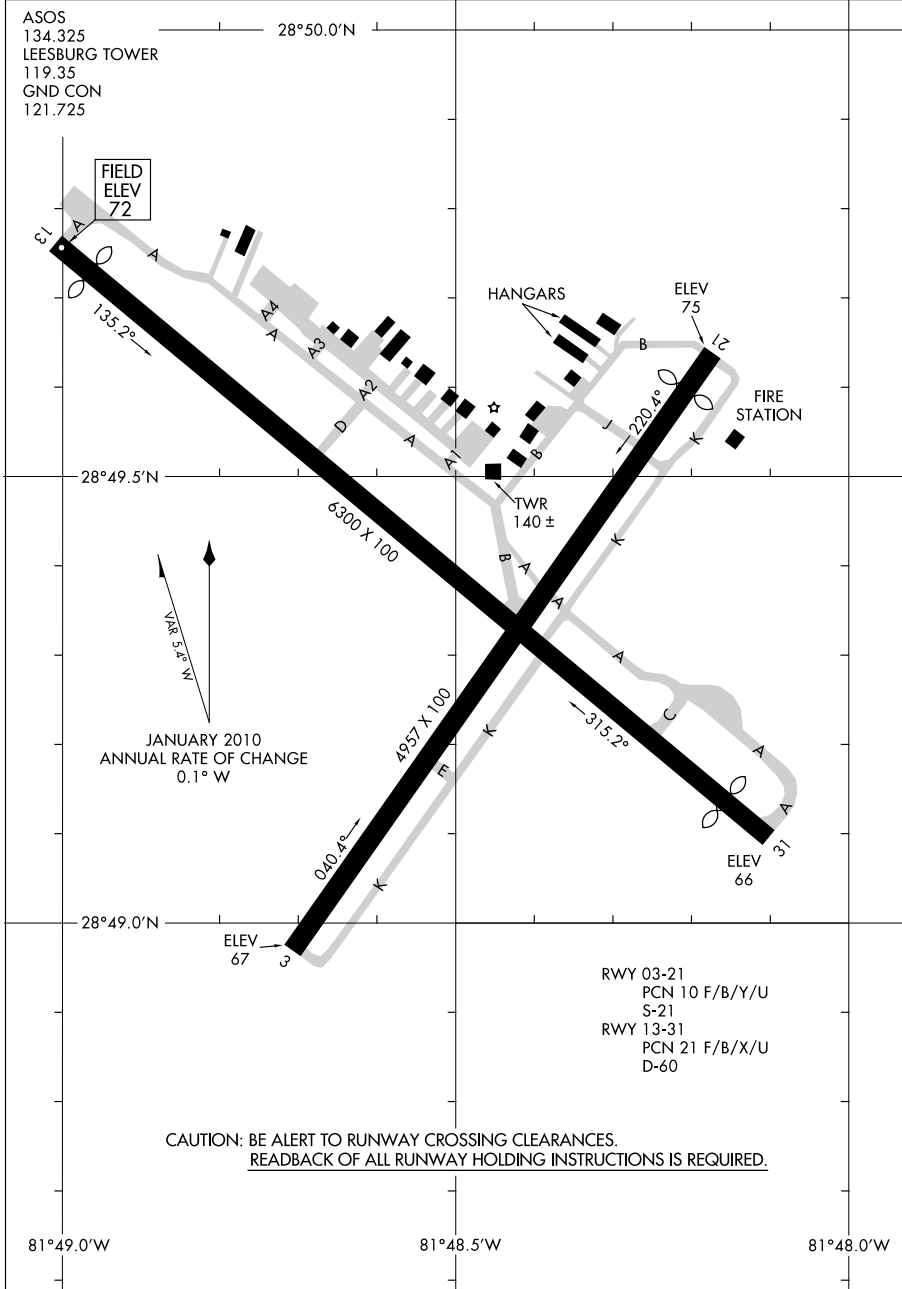
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-6676 (FAA)

LEESBURG INTL (LEE)
LEESBURG, FLORIDA



AIRPORT DIAGRAM

10266

LEESBURG, FLORIDA
LEESBURG INTL (LEE)

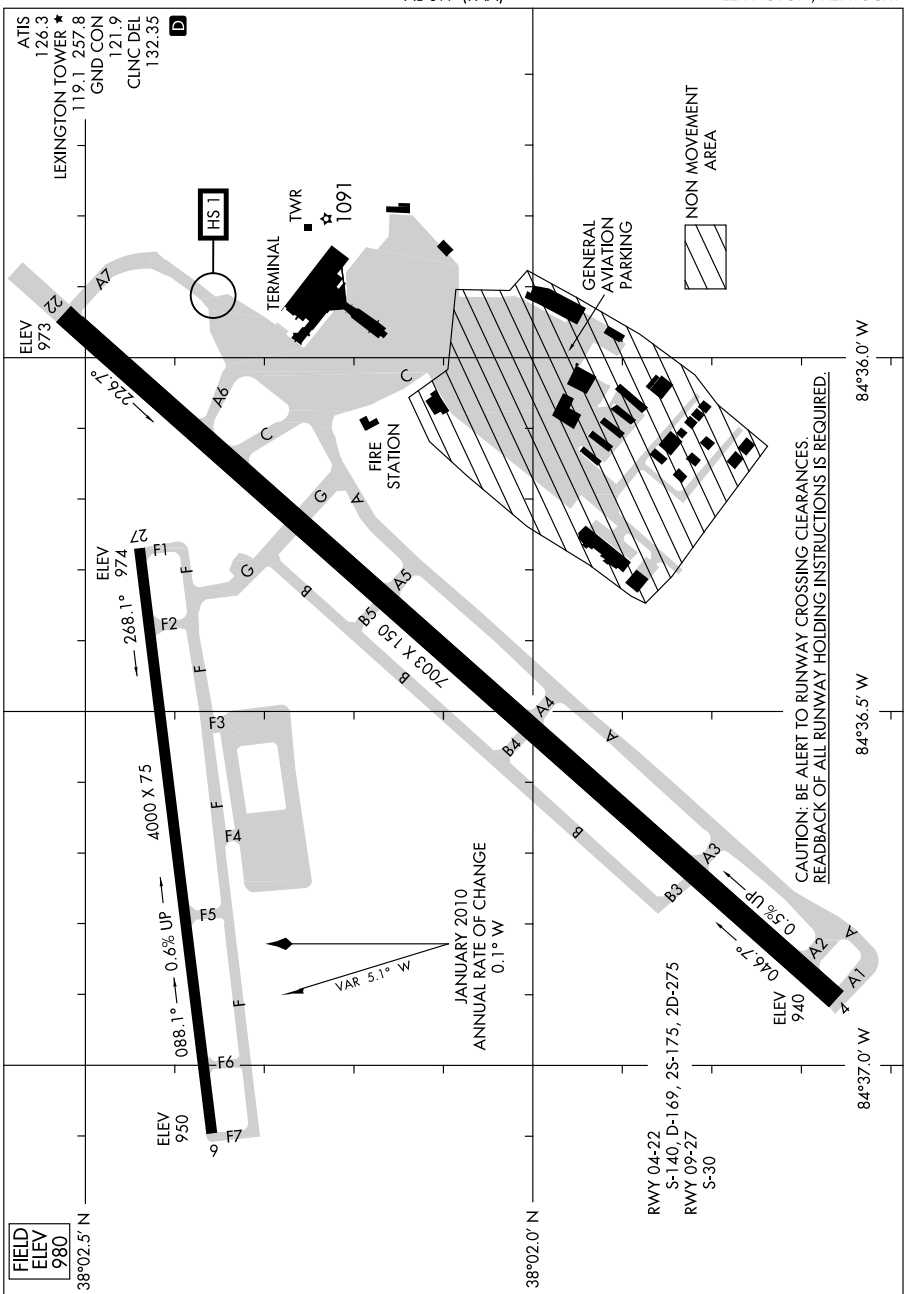
SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-697 (FAA)

LEXINGTON /BLUE GRASS (LEX)

LEXINGTON, KENTUCKY



AIRPORT DIAGRAM

10266

LEXINGTON, KENTUCKY

LEXINGTON /BLUE GRASS (LEX)

SE, 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

LOUISVILLE/BOWMAN FIELD (LOU)

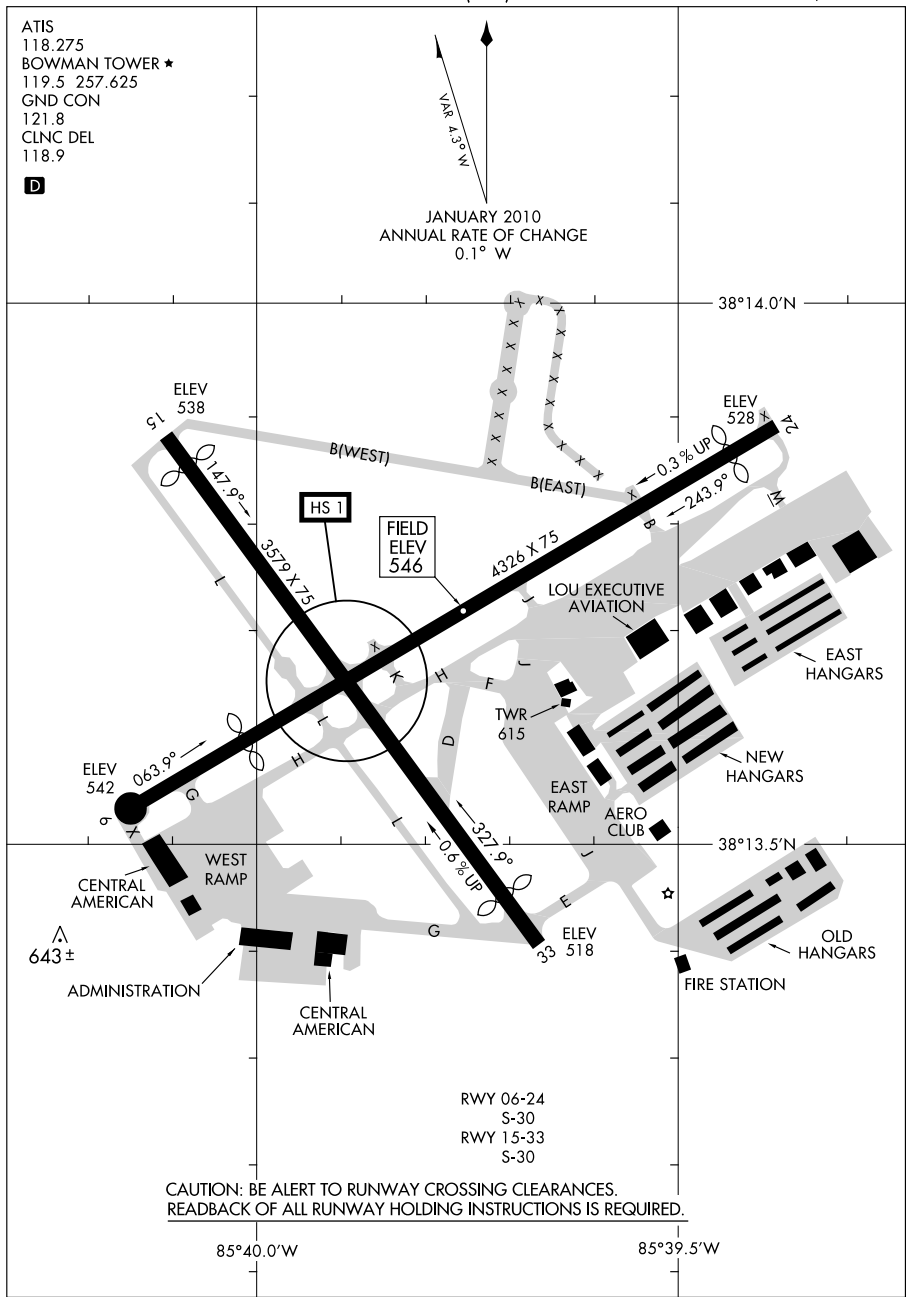
LOUISVILLE, KENTUCKY

AL-238 (FAA)

ATIS
118.275
BOWMAN TOWER ★
119.5 257.625
GND CON
121.8
CLNC DEL
118.9

D

JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W



AIRPORT DIAGRAM

LOUISVILLE, KENTUCKY
LOUISVILLE/BOWMAN FIELD (LOU)

10210

AIRPORT DIAGRAM

AL-239 (FAA)

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

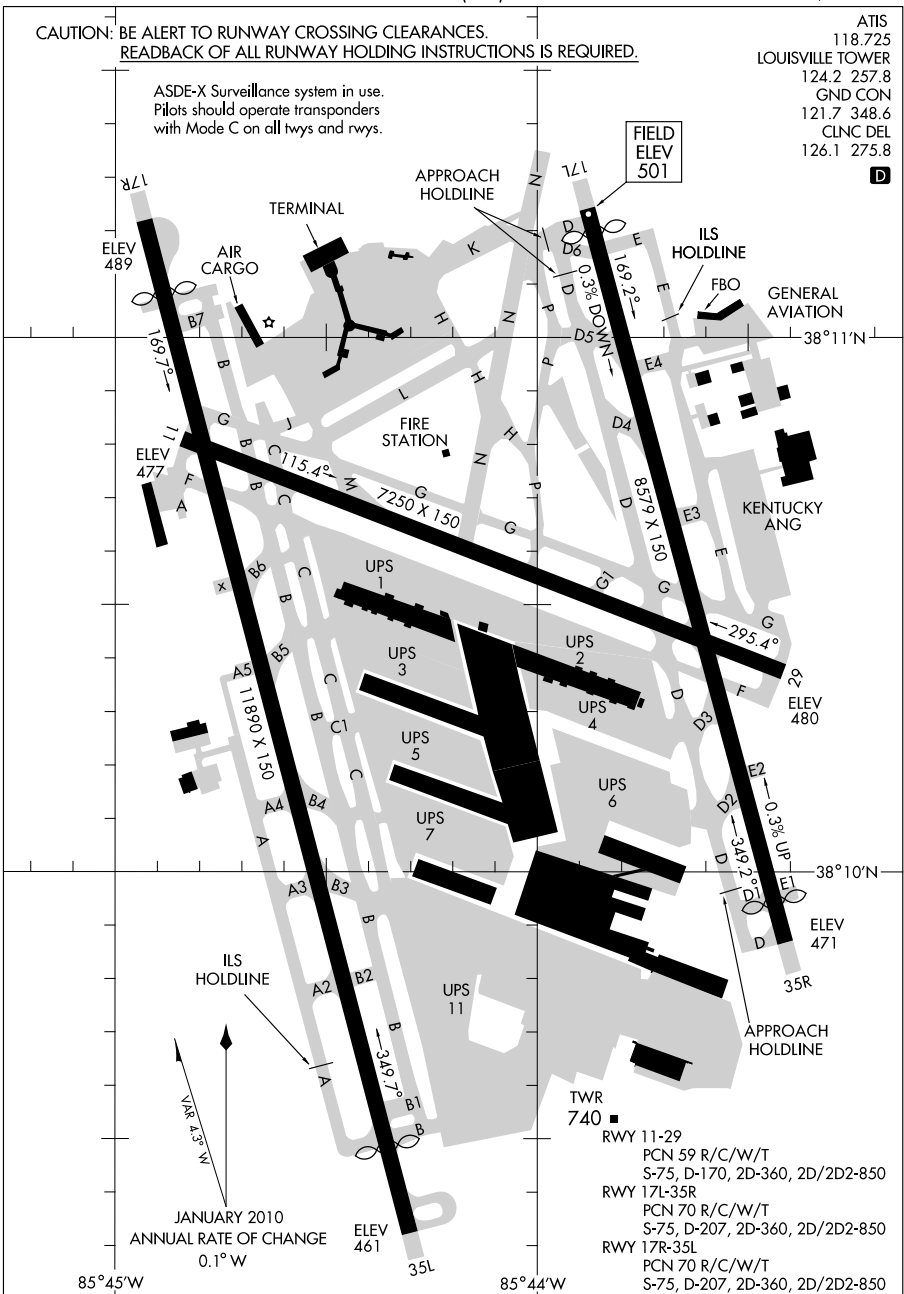
LOUISVILLE, KENTUCKY

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ASDE-X Surveillance system in use.
Pilots should operate transponders
with Mode C on all twys and rwys.

ATIS
118.725
LOUISVILLE TOWER
124.2 257.8
GND CON
121.7 348.6
CLNC DEL
126.1 275.8

D



AIRPORT DIAGRAM

10210

LOUISVILLE, KENTUCKY
LOUISVILLE INTL-STANDIFORD FIELD (SDF)

SE. 23 SEP 2010 to 18 NOV 2010

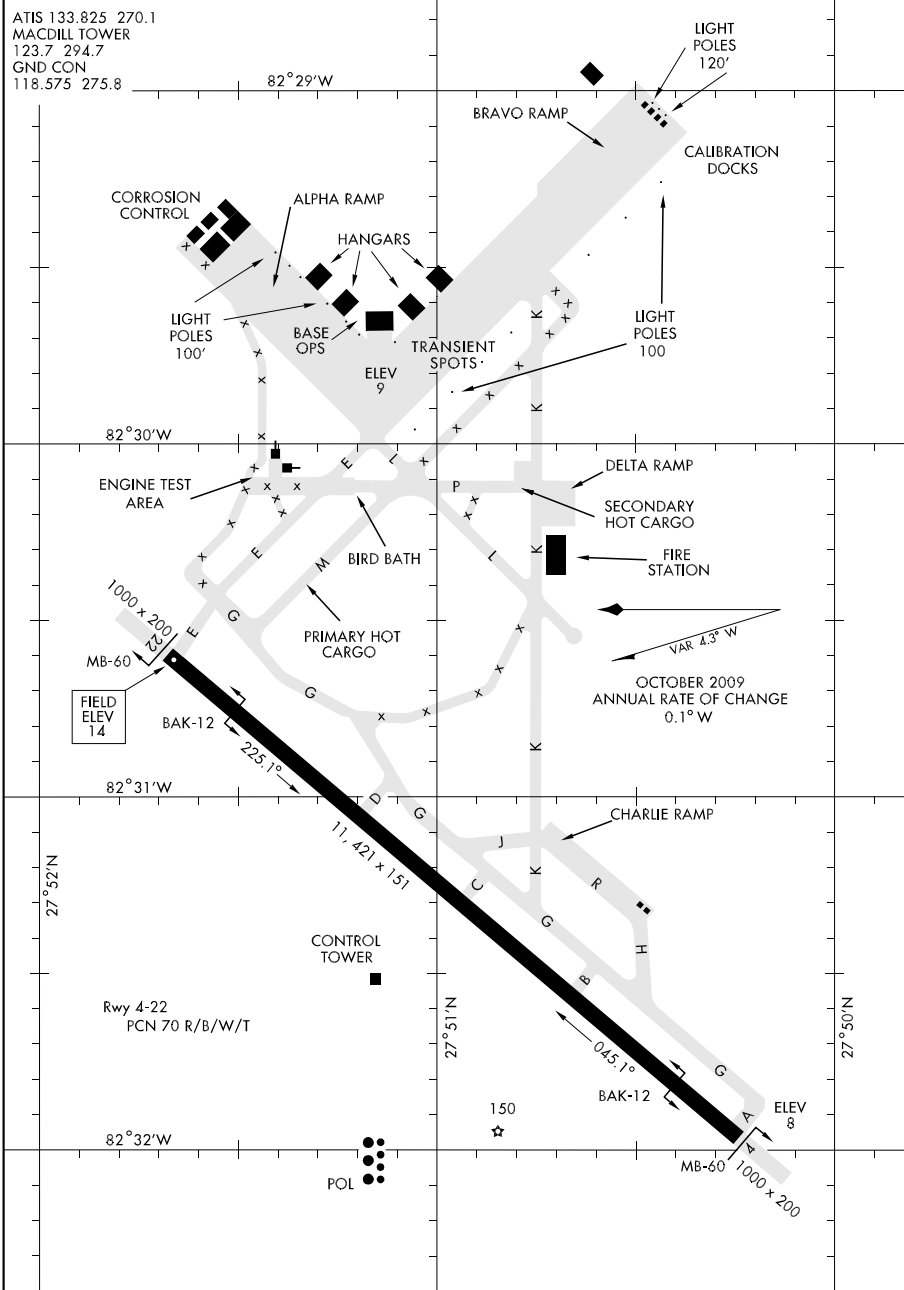
09295

MACDILL AFB (KMCF)

AIRPORT DIAGRAM

AFD-418 [USAF]

TAMPA, FLORIDA



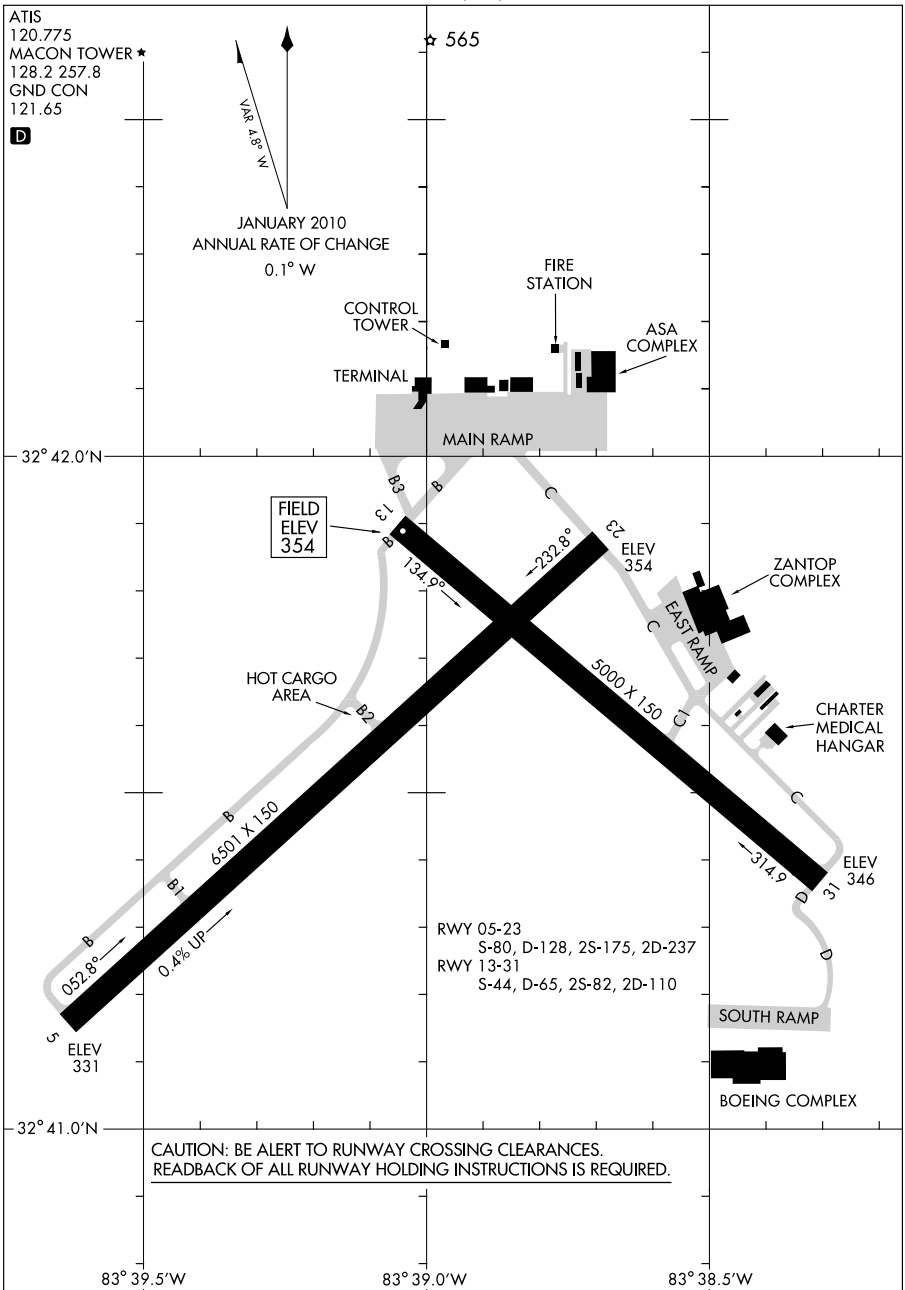
AIRPORT DIAGRAM

TAMPA, FLORIDA
MACDILL AFB (KMCF)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

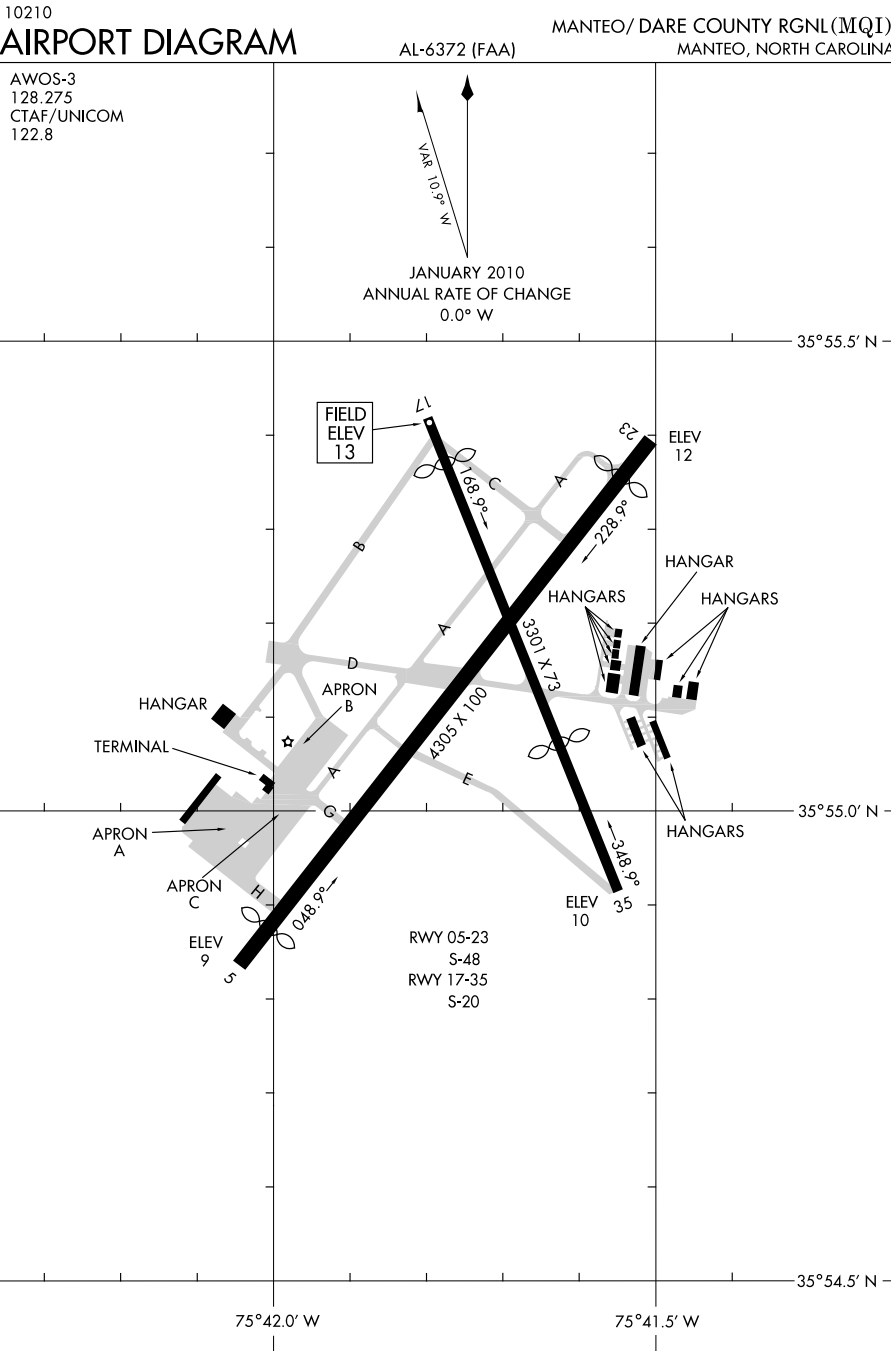
MACON/ MIDDLE GEORGIA RGNL (MCN)
AL-243 (FAA) MACON, GEORGIA

AIRPORT DIAGRAM

10210

MACON, GEORGIA
MACON/ MIDDLE GEORGIA RGNL (MCN)

SE. 23 SEP 2010 to 18 NOV 2010



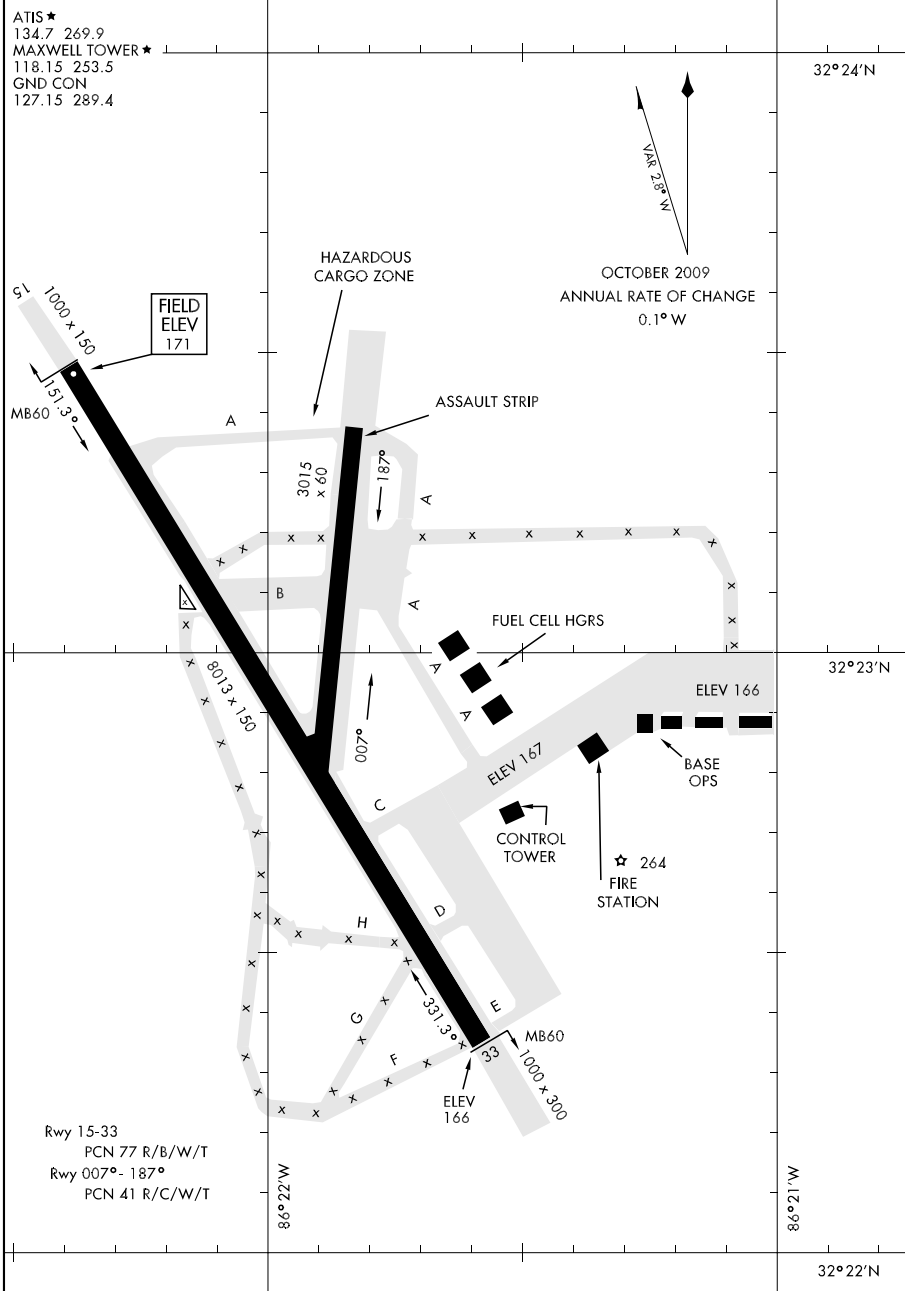
09295

AIRPORT DIAGRAM

AFD-274 [USAF]

MAXWELL AFB (KMXF)

MONTGOMERY, ALABAMA



AIRPORT DIAGRAM

MONTGOMERY, ALABAMA

MAXWELL AFB (KMXF)

SE. 23 SEP 2010 to 18 NOV 2010

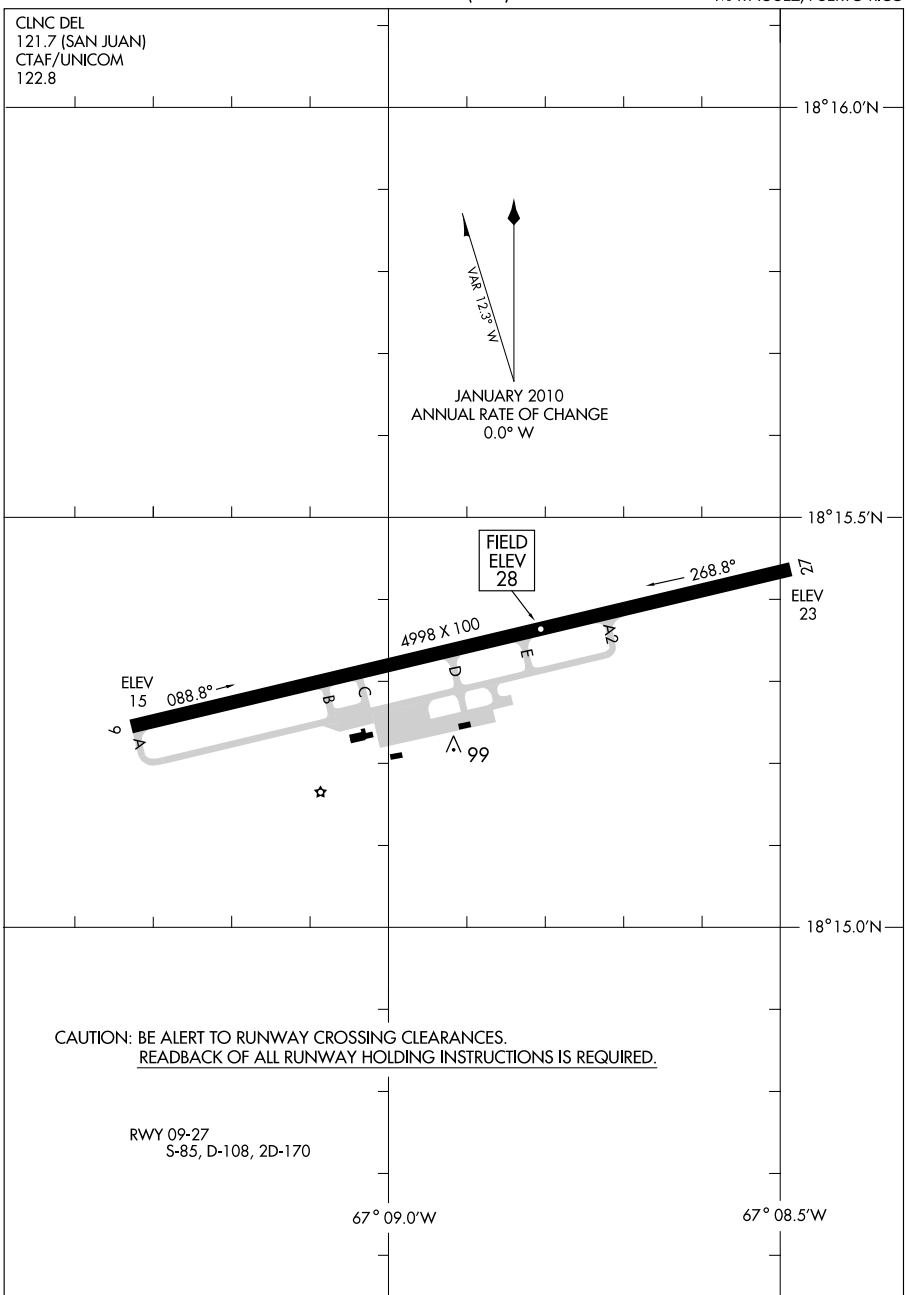
10210

AIRPORT DIAGRAM

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

AL-5328 (FAA)

MAYAGUEZ, PUERTO RICO



AIRPORT DIAGRAM

10210

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

MAYAGUEZ, PUERTO RICO

SE. 23 SEP 2010 to 18 NOV 2010

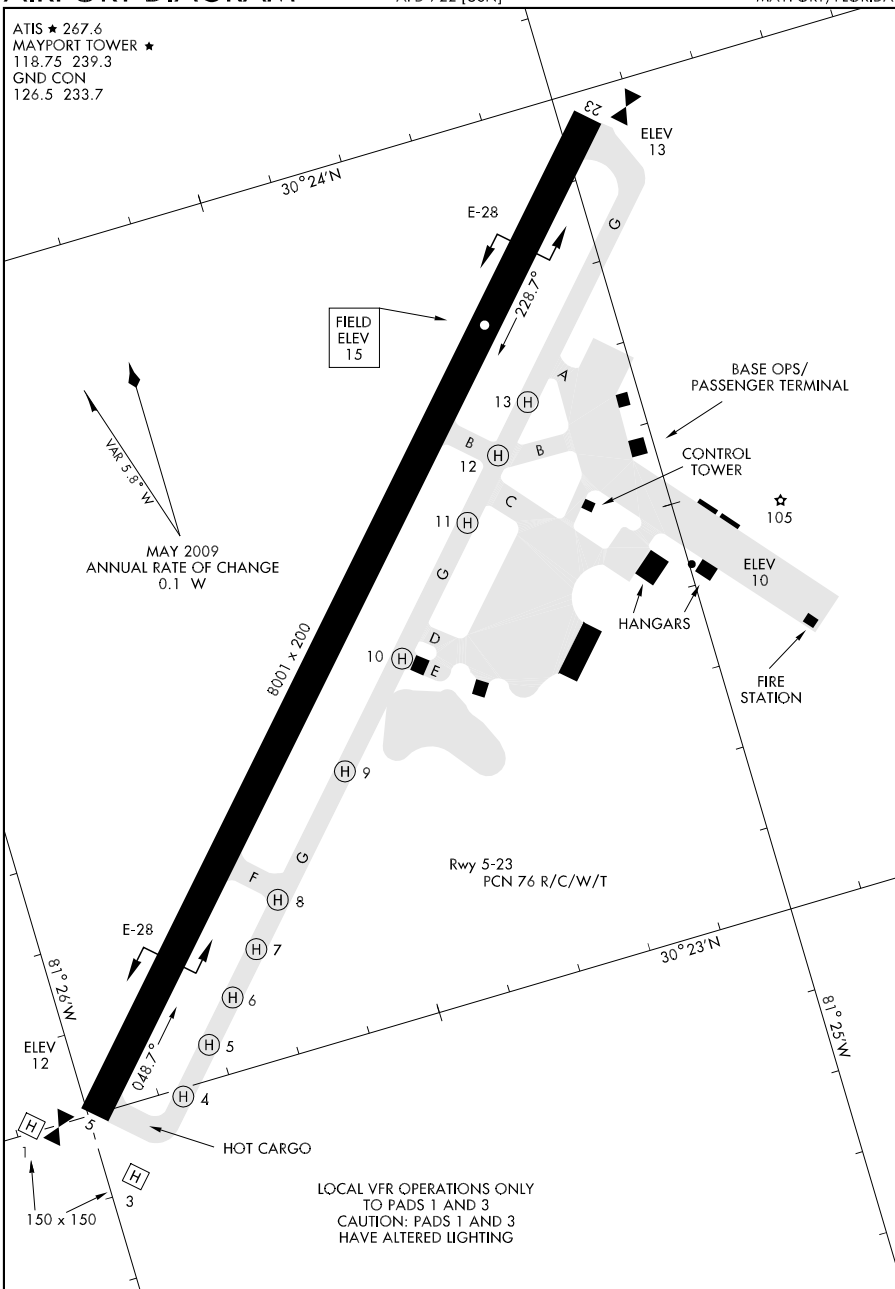
09127

AIRPORT DIAGRAM

MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)
AFD-722 [USN]

MAYPORT, FLORIDA

ATIS ★ 267.6
MAYPORT TOWER ★
118.75 239.3
GND CON
126.5 233.7



AIRPORT DIAGRAM

MAYPORT, FLORIDA
MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)

SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AFD-951 [USAF]

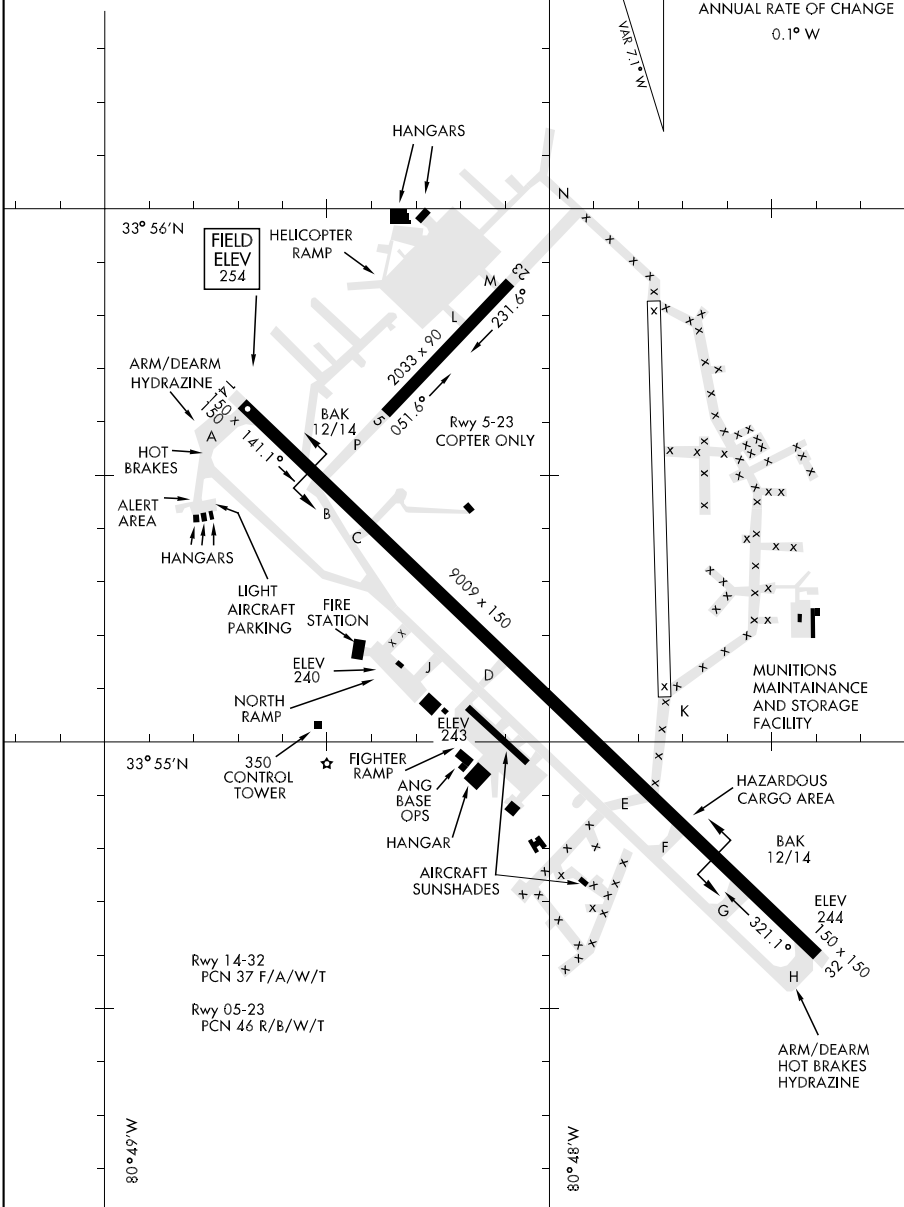
MC ENTIRE JNGB (KMMT)

EASTOVER, SOUTH CAROLINA

MC ENTIRE TOWER ★
132.4 253.5
GND CON
127.625 226.675

SEPTEMBER 2010

ANNUAL RATE OF CHANGE
0.1° W



AIRPORT DIAGRAM

EASTOVER, SOUTH CAROLINA

MC ENTIRE JNGB (KMMT)

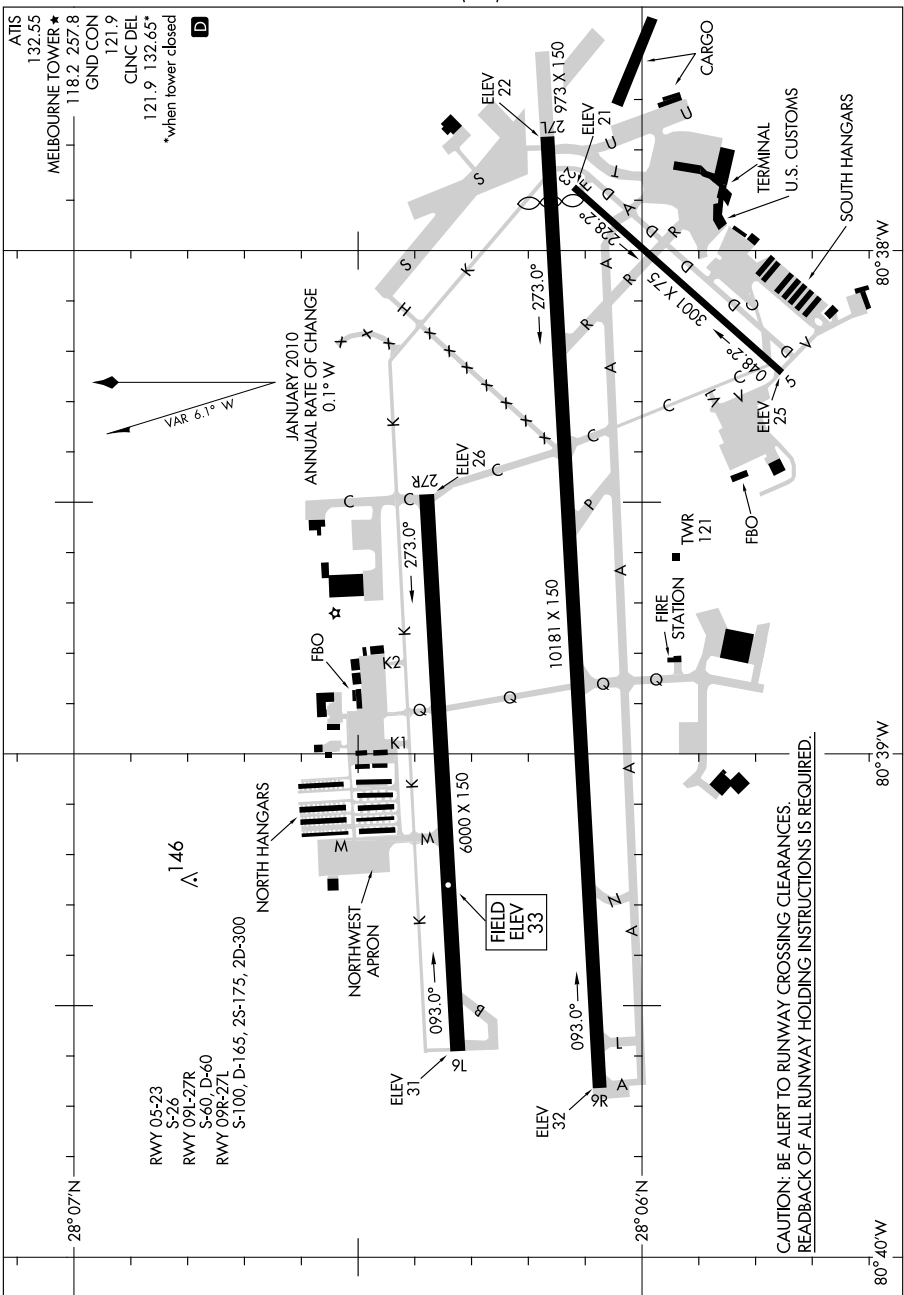
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-252 (FAA)

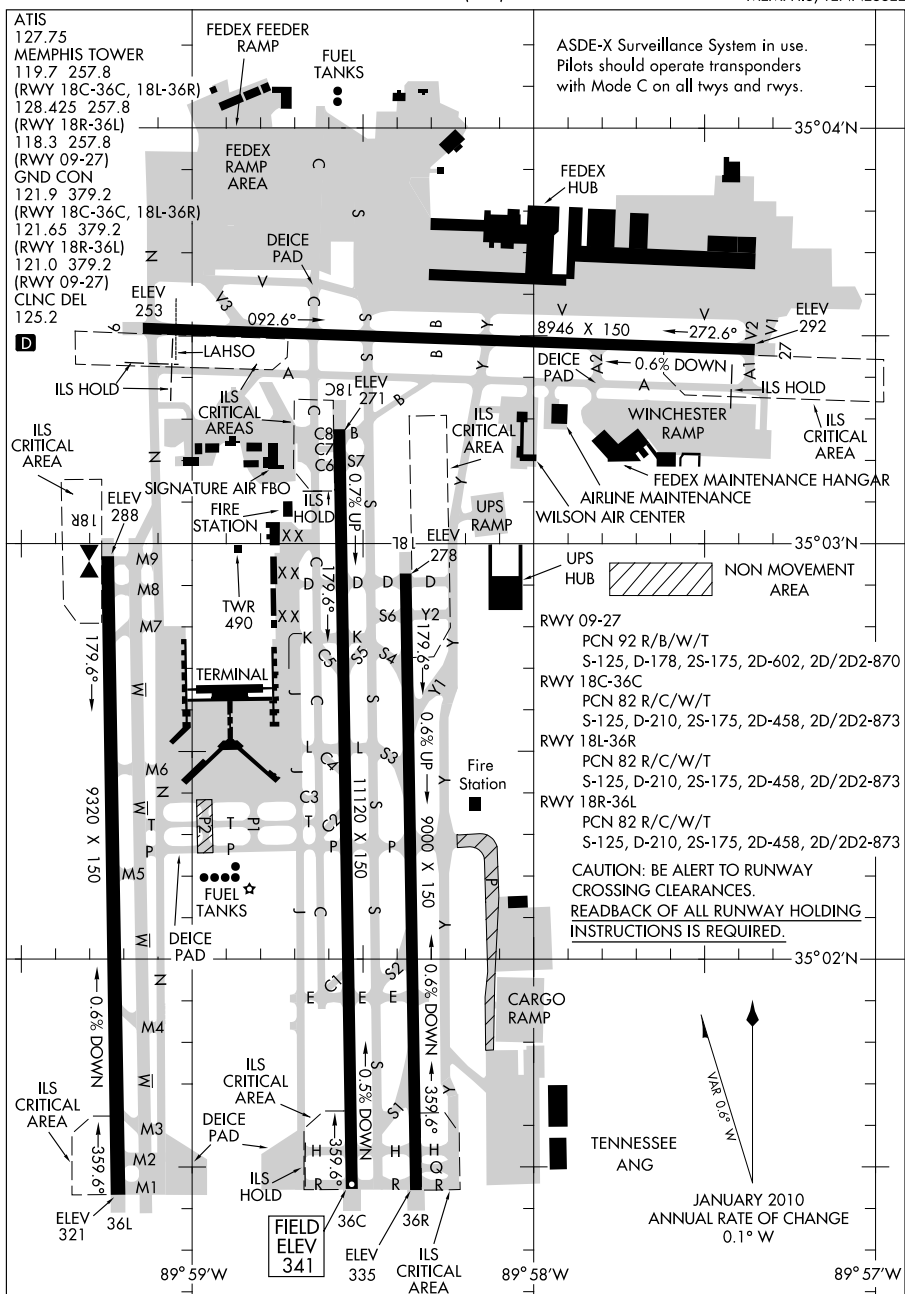
MELBOURNE INTL (MLB)
MELBOURNE, FLORIDA



AIRPORT DIAGRAM

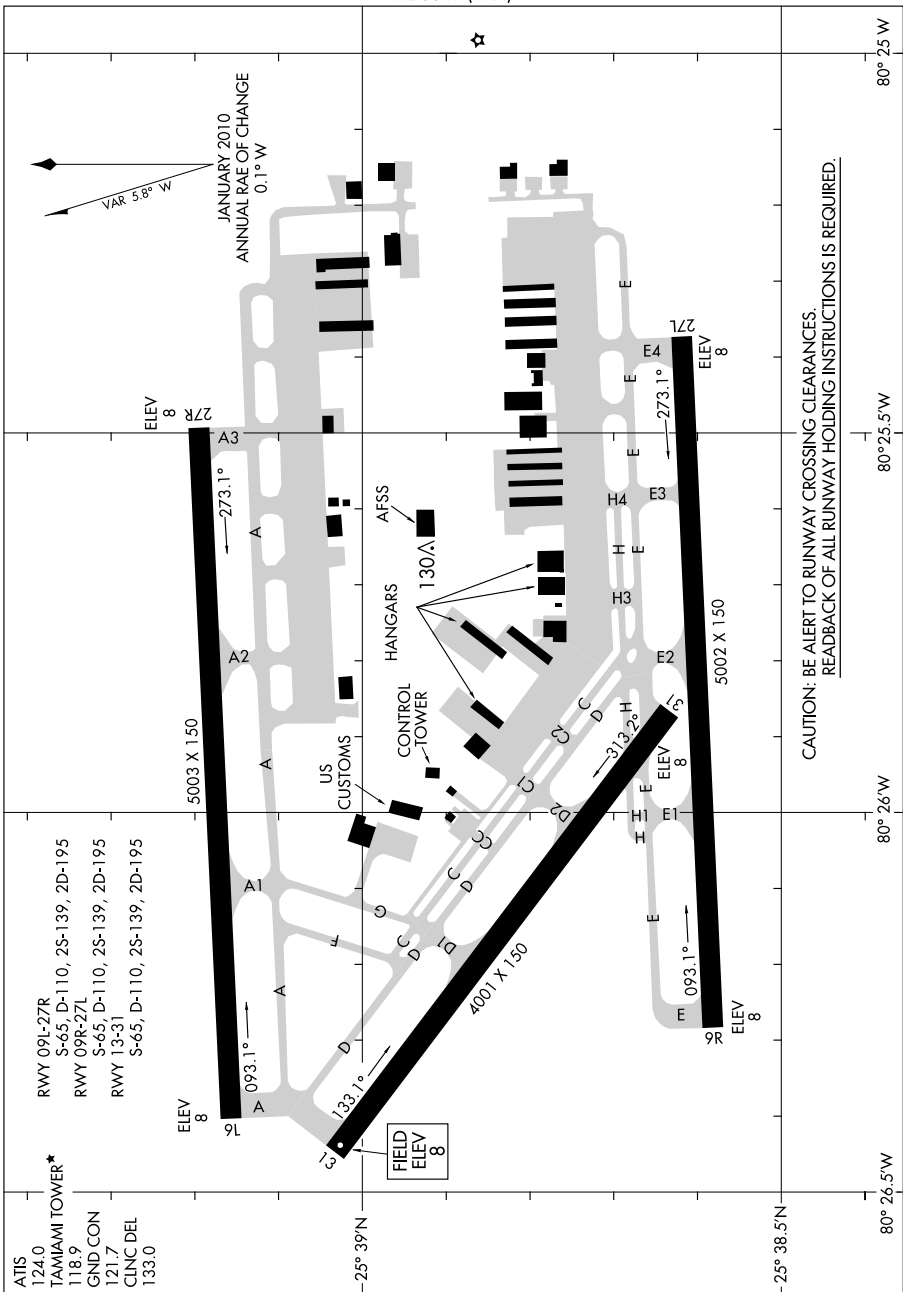
MELBOURNE, FLORIDA
MELBOURNE INTL (MLB)

10210



AIRPORT DIAGRAM

MIAMI/KENDALL-TAMIAMI EXECUTIVE (TMB)
AL-5349 (FAA) MIAMI, FLORIDA



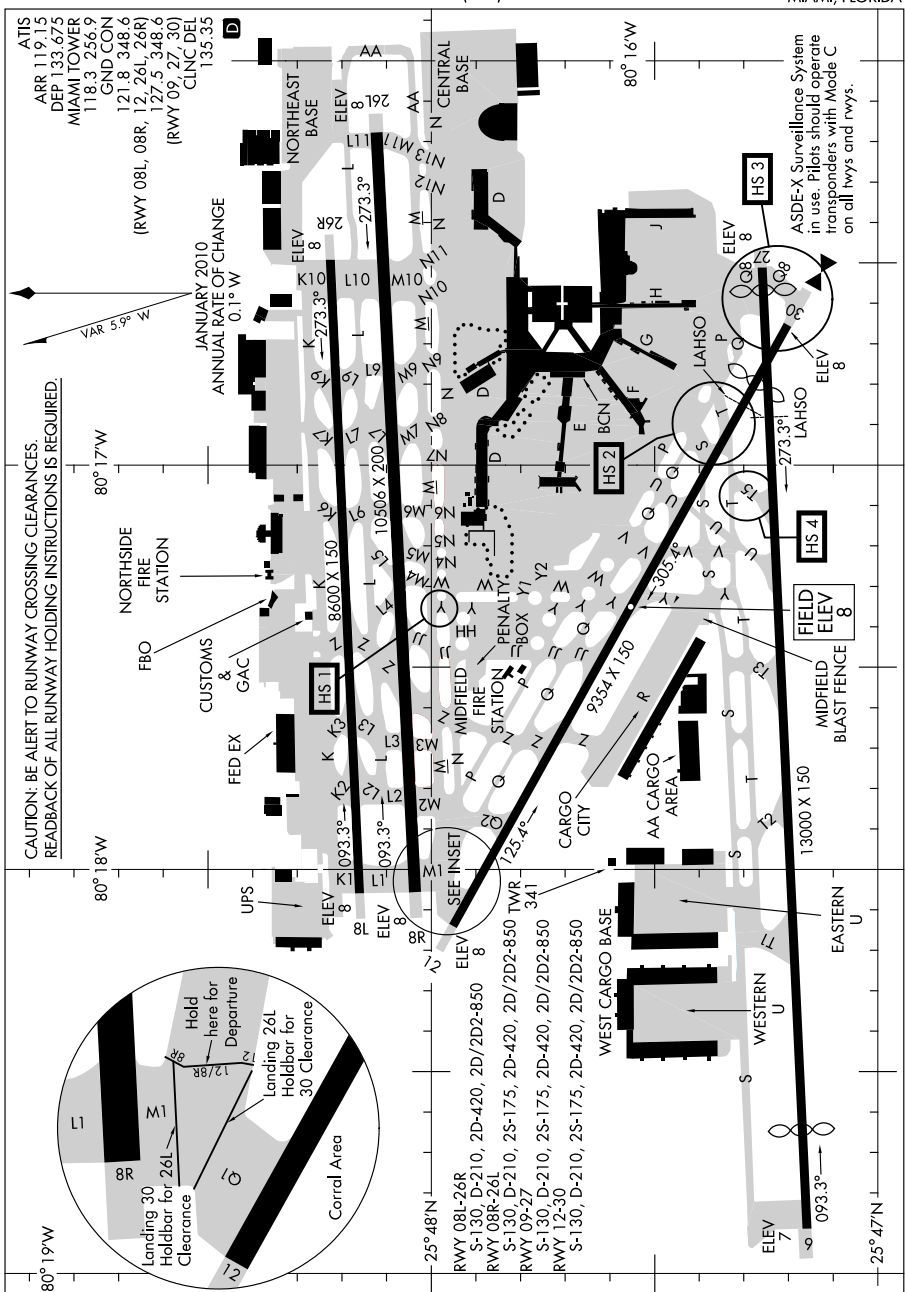
AIRPORT DIAGRAM

MIAMI, FLORIDA
MIAMI/KENDALL-TAMIAMI EXECUTIVE (TMB)

AIRPORT DIAGRAM

AL-257 (FAA)

MIAMI INTL (MIA)
MIAMI, FLORIDA

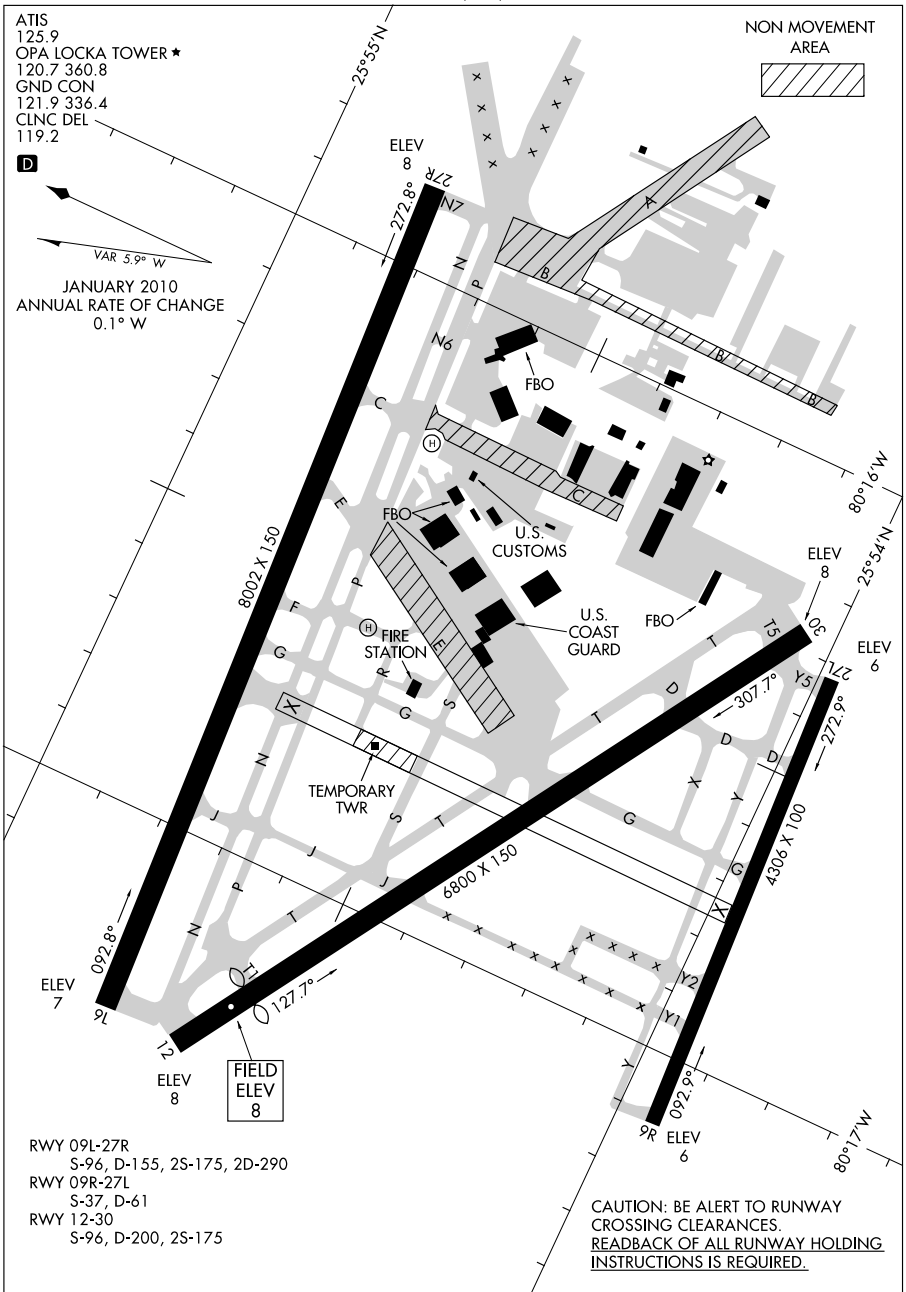


AIRPORT DIAGRAM

MIAMI, FLORIDA
MIAMI INTL (MIA)

AIRPORT DIAGRAM

MIAMI/OPA LOCKA EXECUTIVE (OPF)
MIAMI, FLORIDA



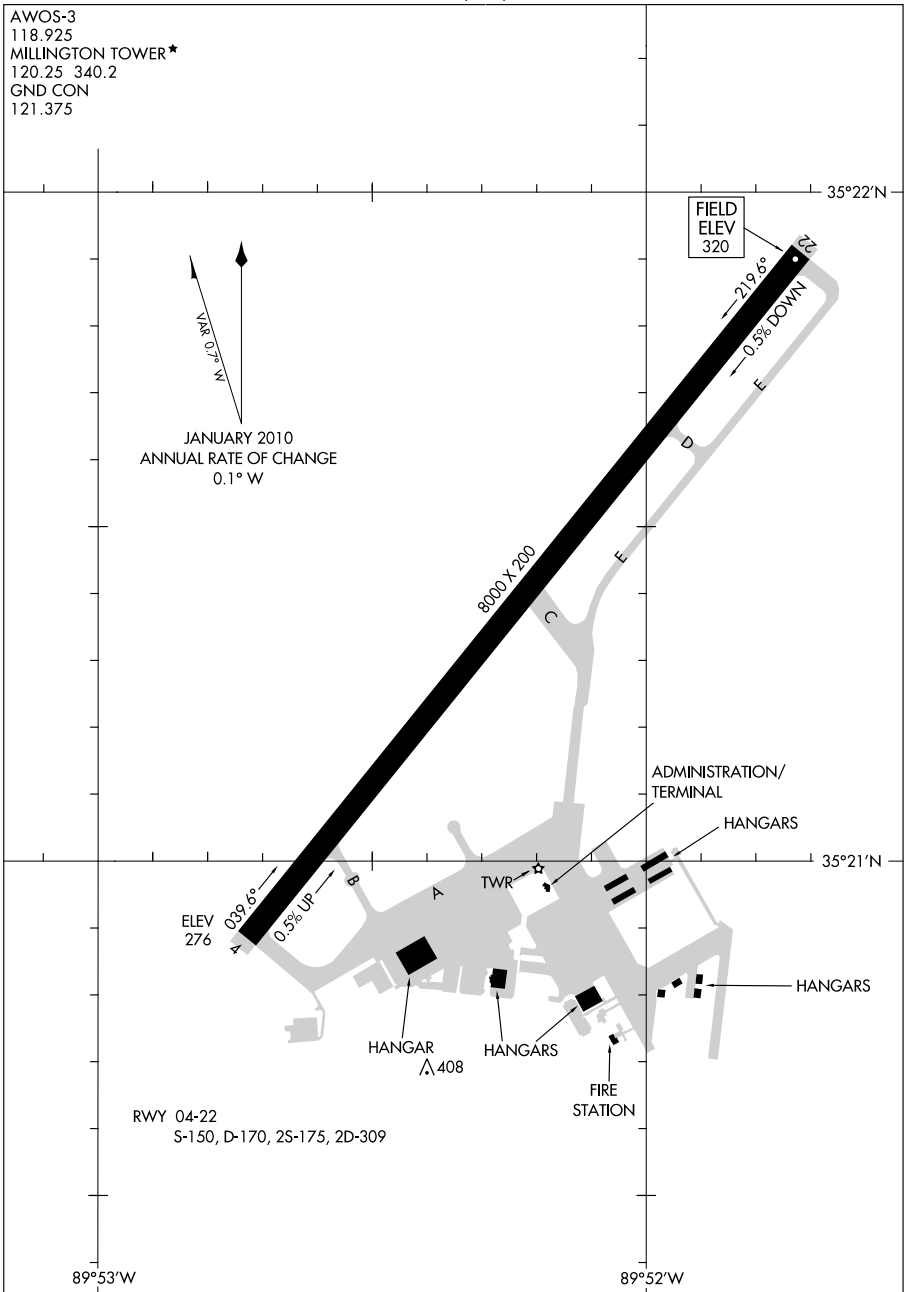
AIRPORT DIAGRAM

MIAMI, FLORIDA
MIAMI/OPA LOCKA EXECUTIVE (OPF)

AIRPORT DIAGRAM

AL-910 (FAA)

MILLINGTON RGNL JETPORT (NQA)
MILLINGTON, TENNESSEE



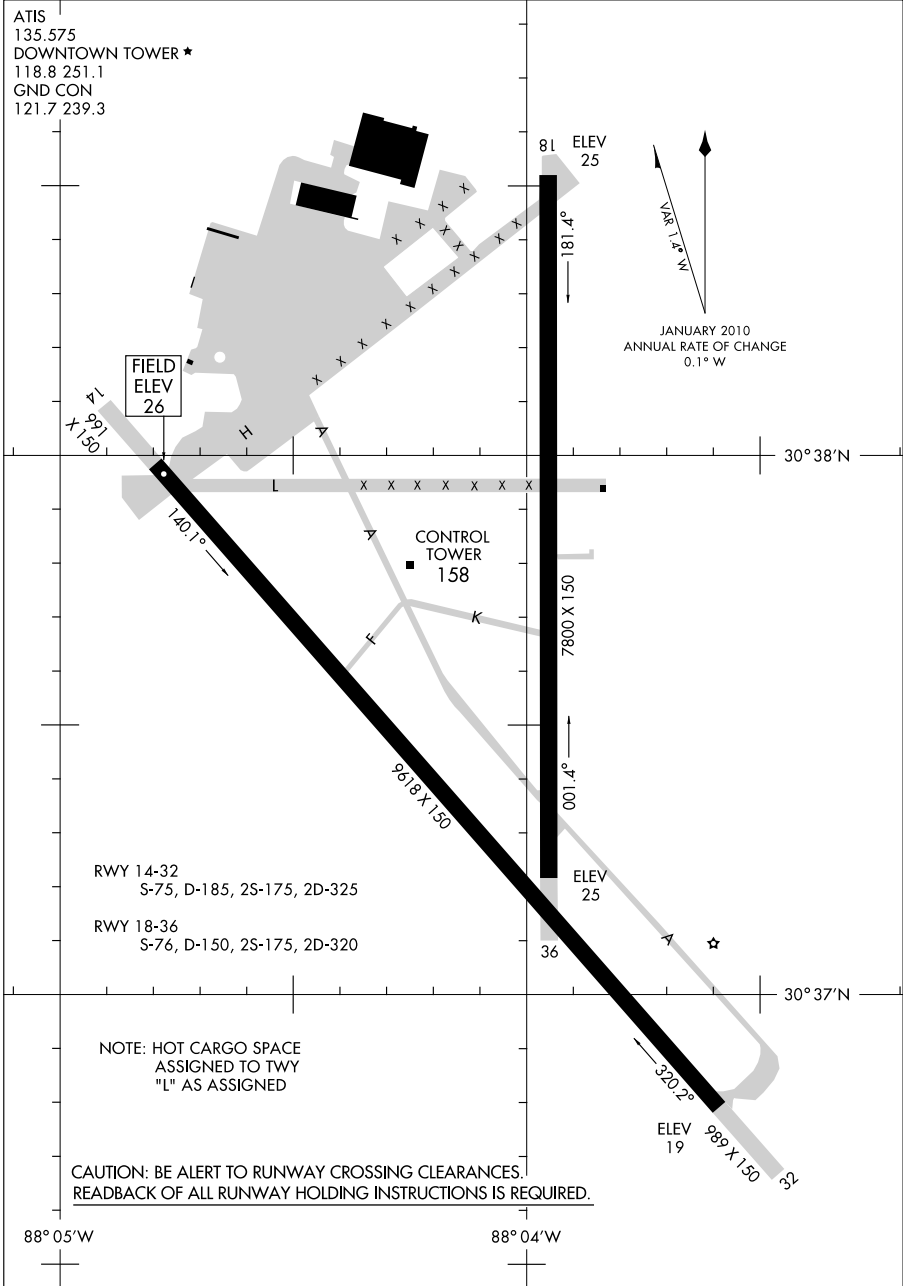
AIRPORT DIAGRAM

MILLINGTON, TENNESSEE
MILLINGTON RGNL JETPORT (NQA)

10210

AIRPORT DIAGRAM

AL-268 (FAA)

MOBILE DOWNTOWN (BFM)
MOBILE, ALABAMA

AIRPORT DIAGRAM

10210

MOBILE, ALABAMA
MOBILE DOWNTOWN (BFM)

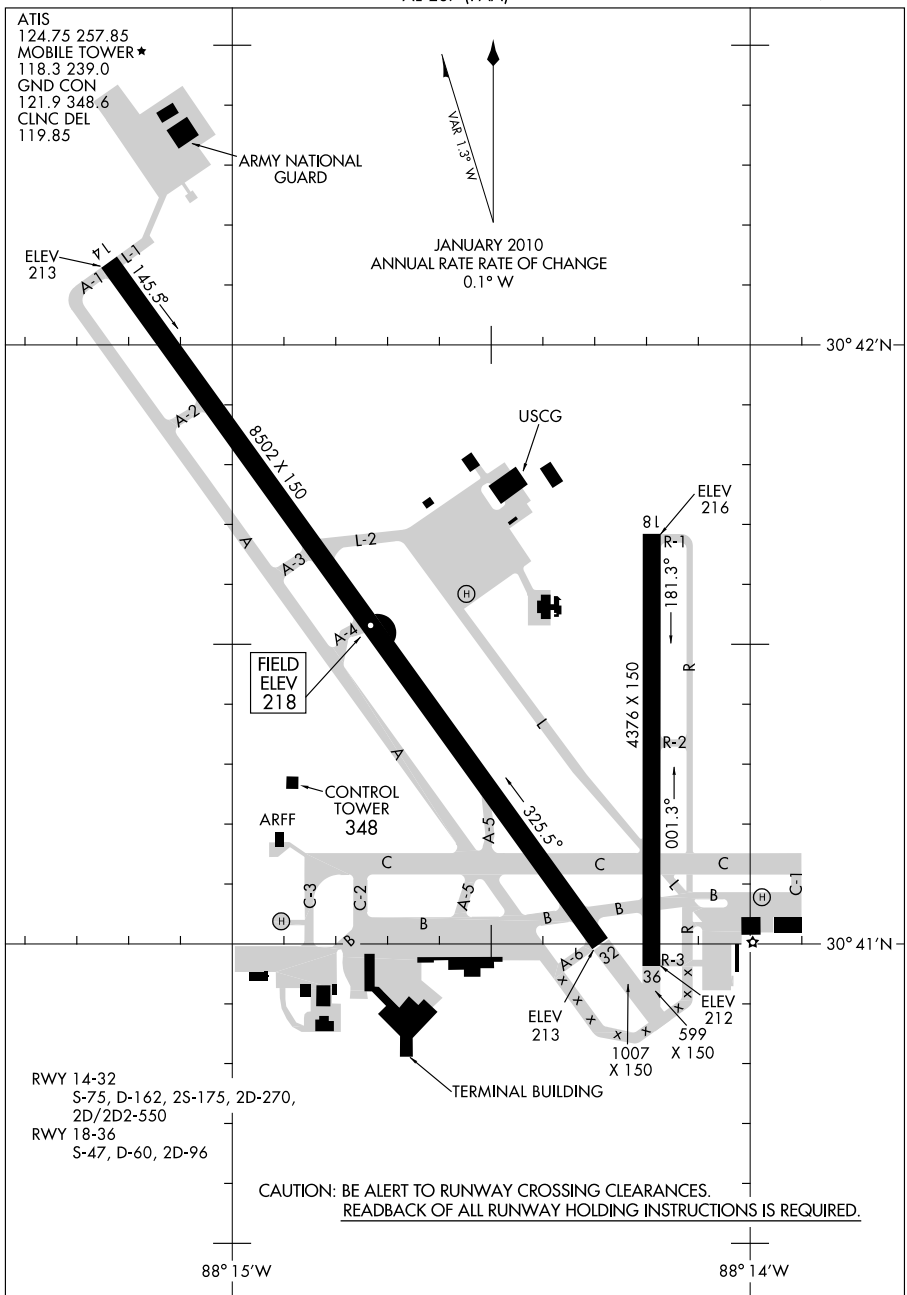
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-267 (FAA)

MOBILE RGNL (MOB)
MOBILE, ALABAMA



AIRPORT DIAGRAM

MOBILE, ALABAMA
MOBILE RGNL (MOB)

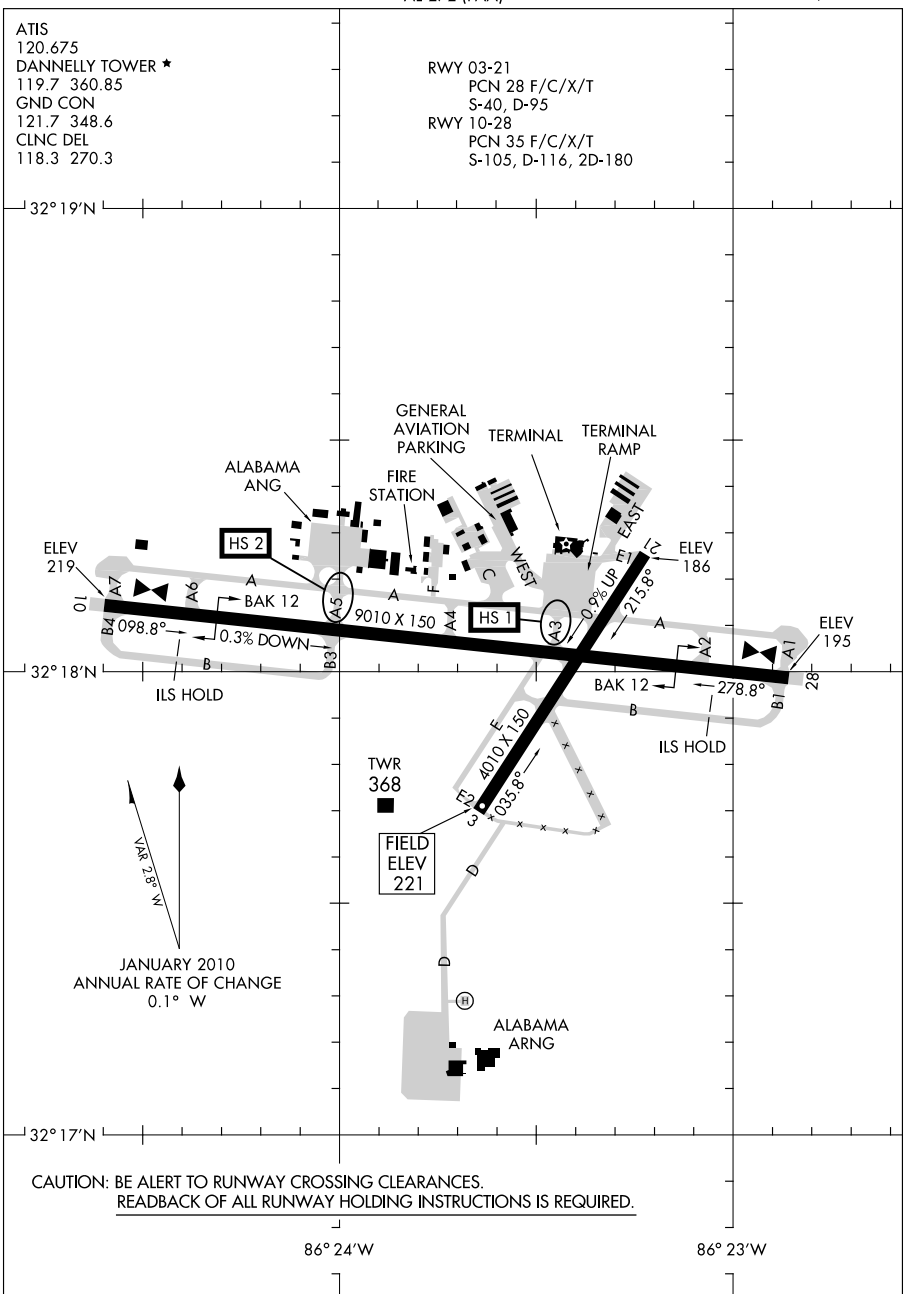
10210

SE, 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

MONTGOMERY RGNL (DANNELLY FIELD)(MGM)
AL-272 (FAA)
MONTGOMERY, ALABAMA



AIRPORT DIAGRAM

MONTGOMERY, ALABAMA
MONTGOMERY RGNL (DANNELLY FIELD)(MGM)

10266

SE. 23 SEP 2010 to 18 NOV 2010

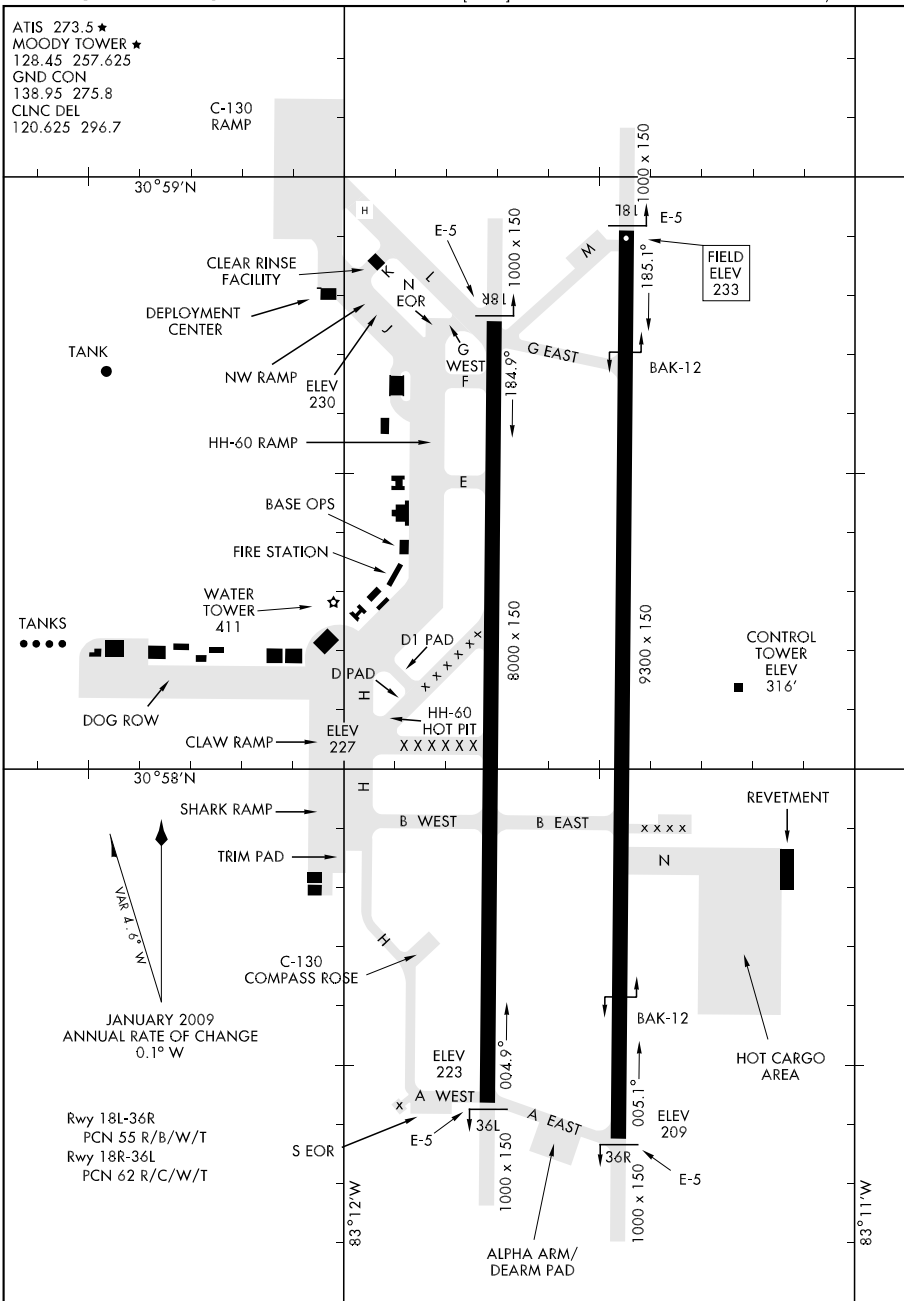
09015

MOODY AFB (KVAD)

AIRPORT DIAGRAM

AFD-435 [USAF]

VALDOSTA, GEORGIA



AIRPORT DIAGRAM

VALDOSTA, GEORGIA

MOODY AFB (KVAD)

SE. 23 SEP 2010 to 18 NOV 2010

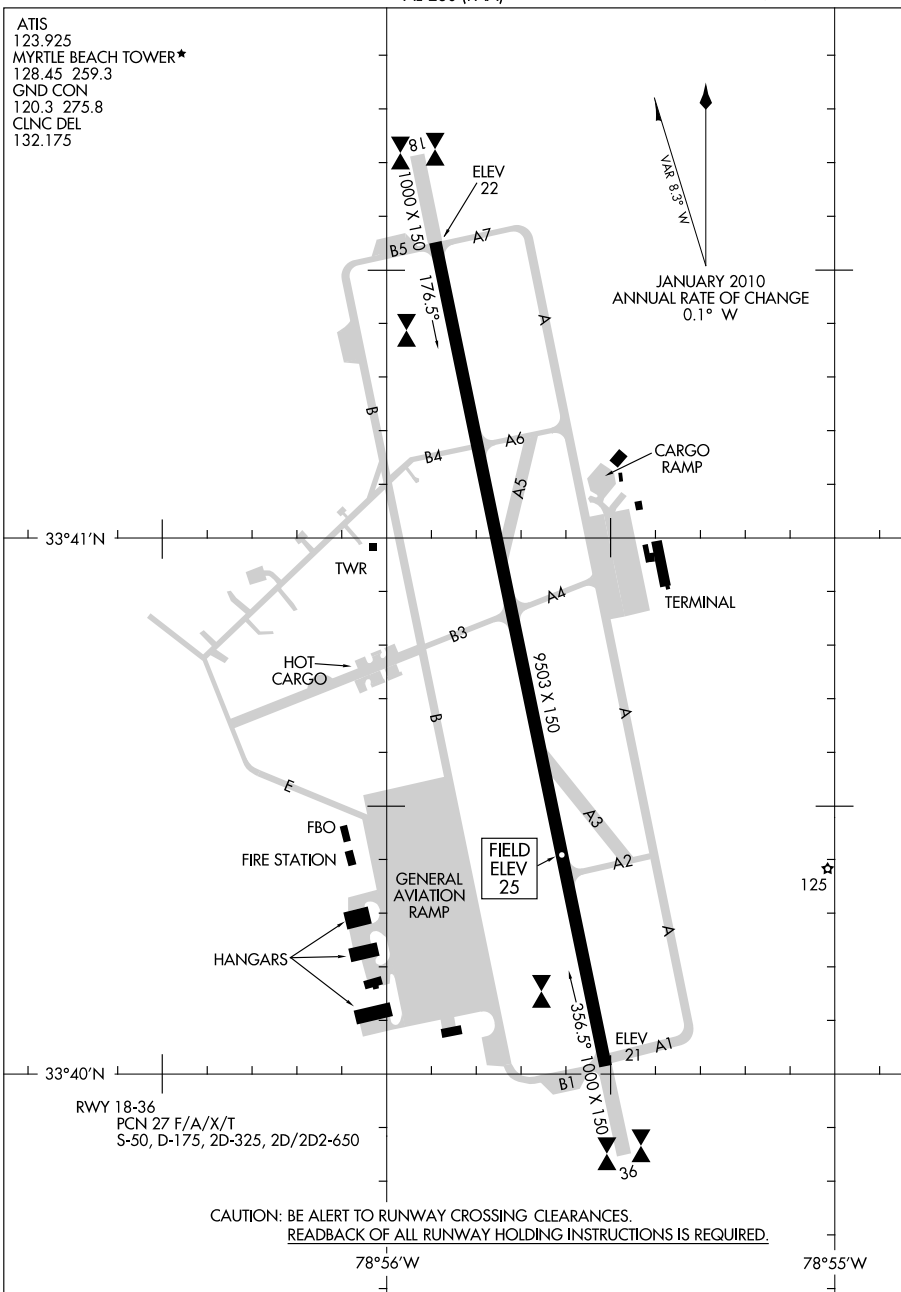
10210

AIRPORT DIAGRAM

AL-280 (FAA)

MYRTLE BEACH INTL (MYR)
MYRTLE BEACH, SOUTH CAROLINA

ATIS
123.925
MYRTLE BEACH TOWER★
128.45 259.3
GND CON
120.3 275.8
CLNC DEL
132.175



AIRPORT DIAGRAM

10210

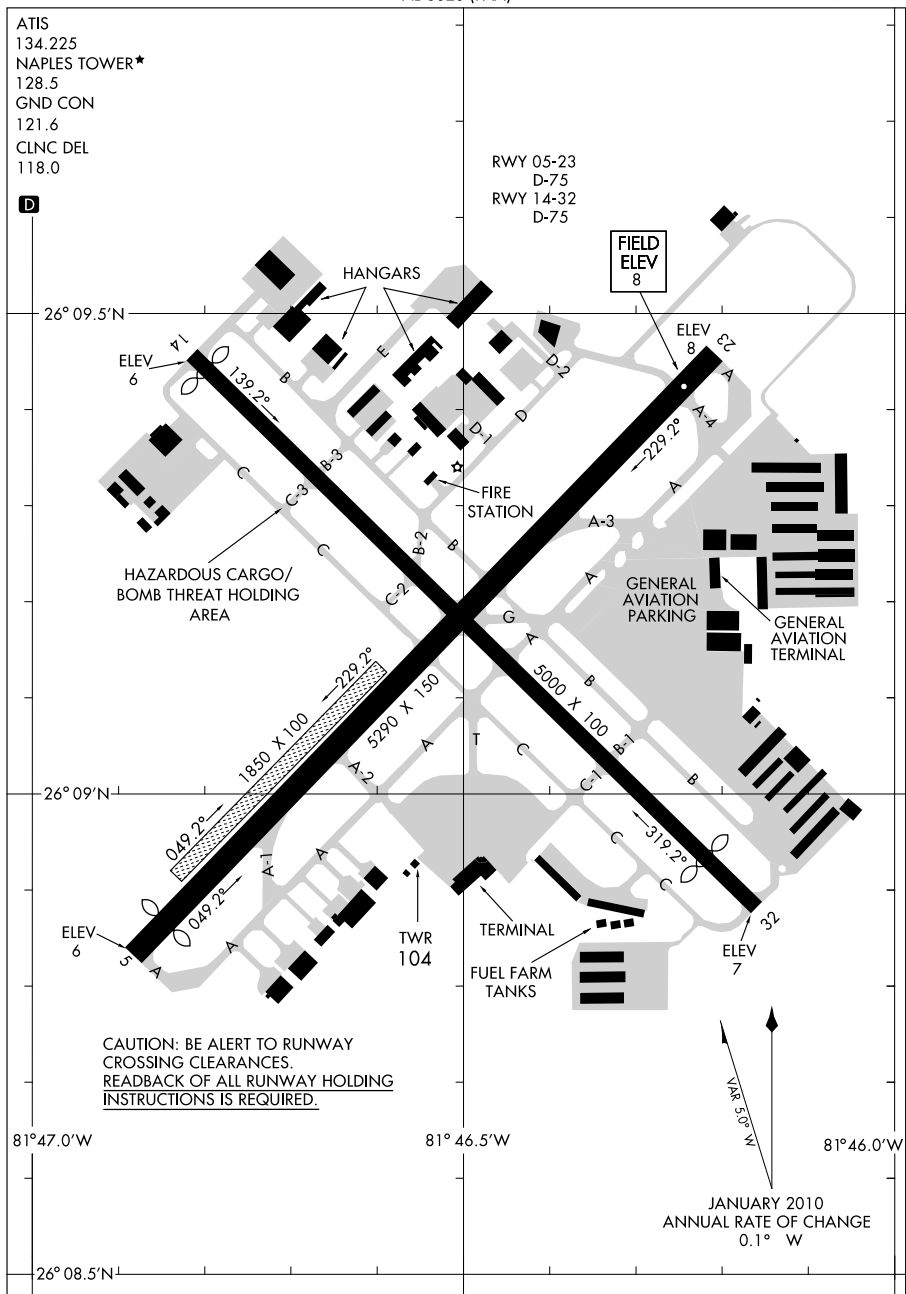
MYRTLE BEACH, SOUTH CAROLINA
MYRTLE BEACH INTL (MYR)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-6020 (FAA)

NAPLES MUNI (APF)
NAPLES, FLORIDA



AIRPORT DIAGRAM

10210

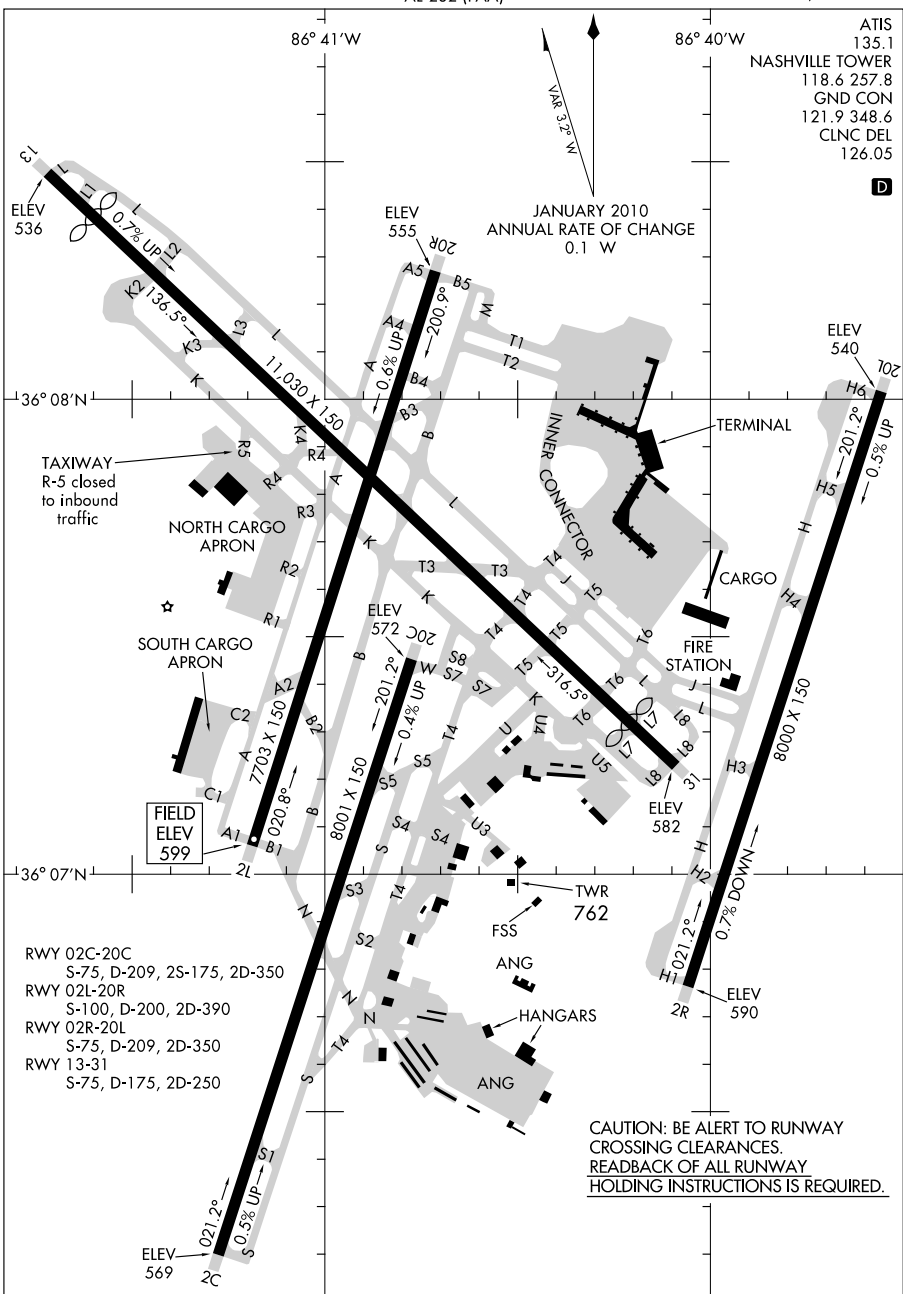
NAPLES, FLORIDA
NAPLES MUNI (APF)

SE, 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-282 (FAA)

NASHVILLE INTL (BNA)
NASHVILLE, TENNESSEE

AIRPORT DIAGRAM

10210

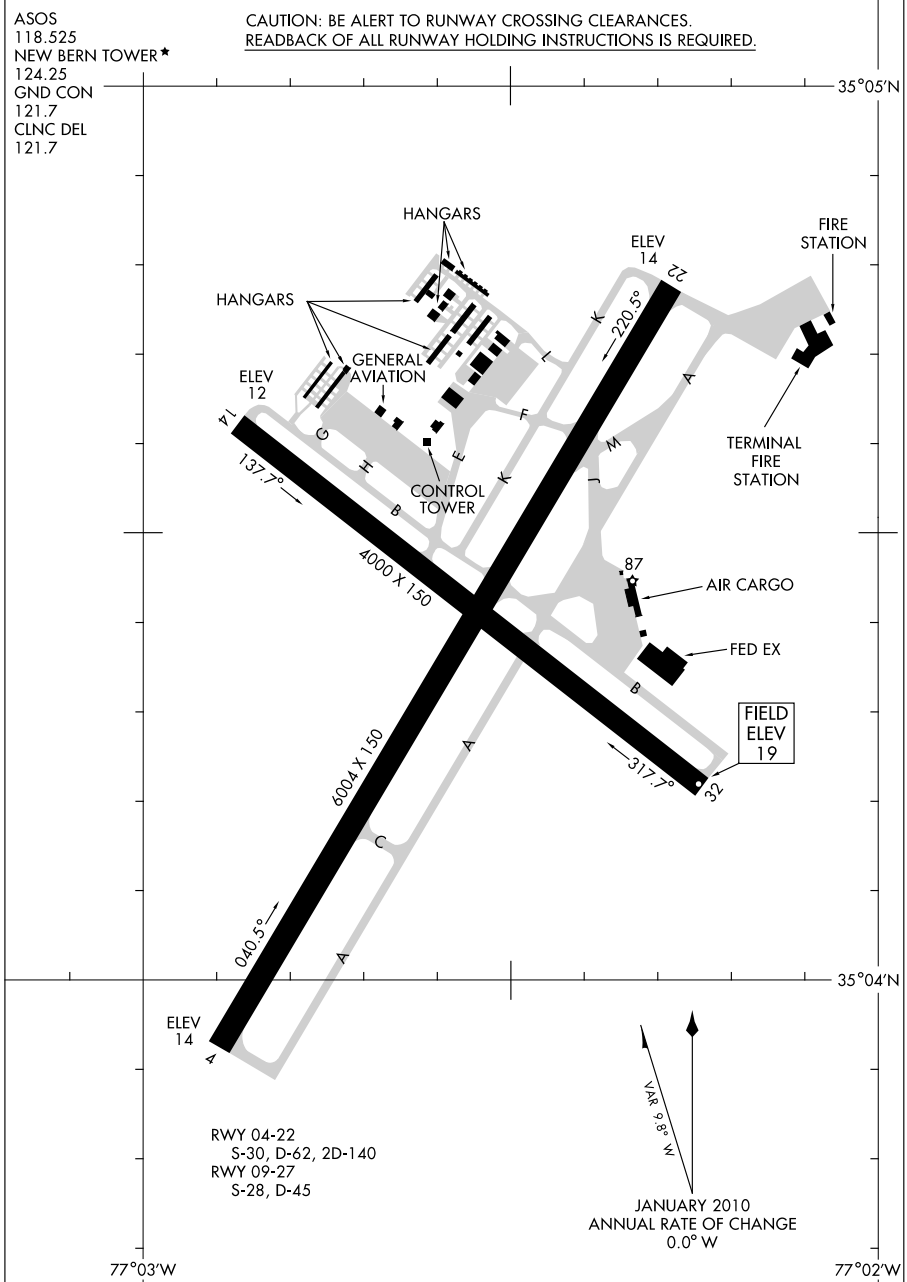
NASHVILLE, TENNESSEE
NASHVILLE INTL (BNA)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

NEW BERN/COASTAL CAROLINA RGNL (EWN)
AL-670 (FAA) NEW BERN, NORTH CAROLINA



AIRPORT DIAGRAM

10210

NEW BERN, NORTH CAROLINA
NEW BERN/COASTAL CAROLINA RGNL (EWN)

SE. 23 SEP 2010 to 18 NOV 2010

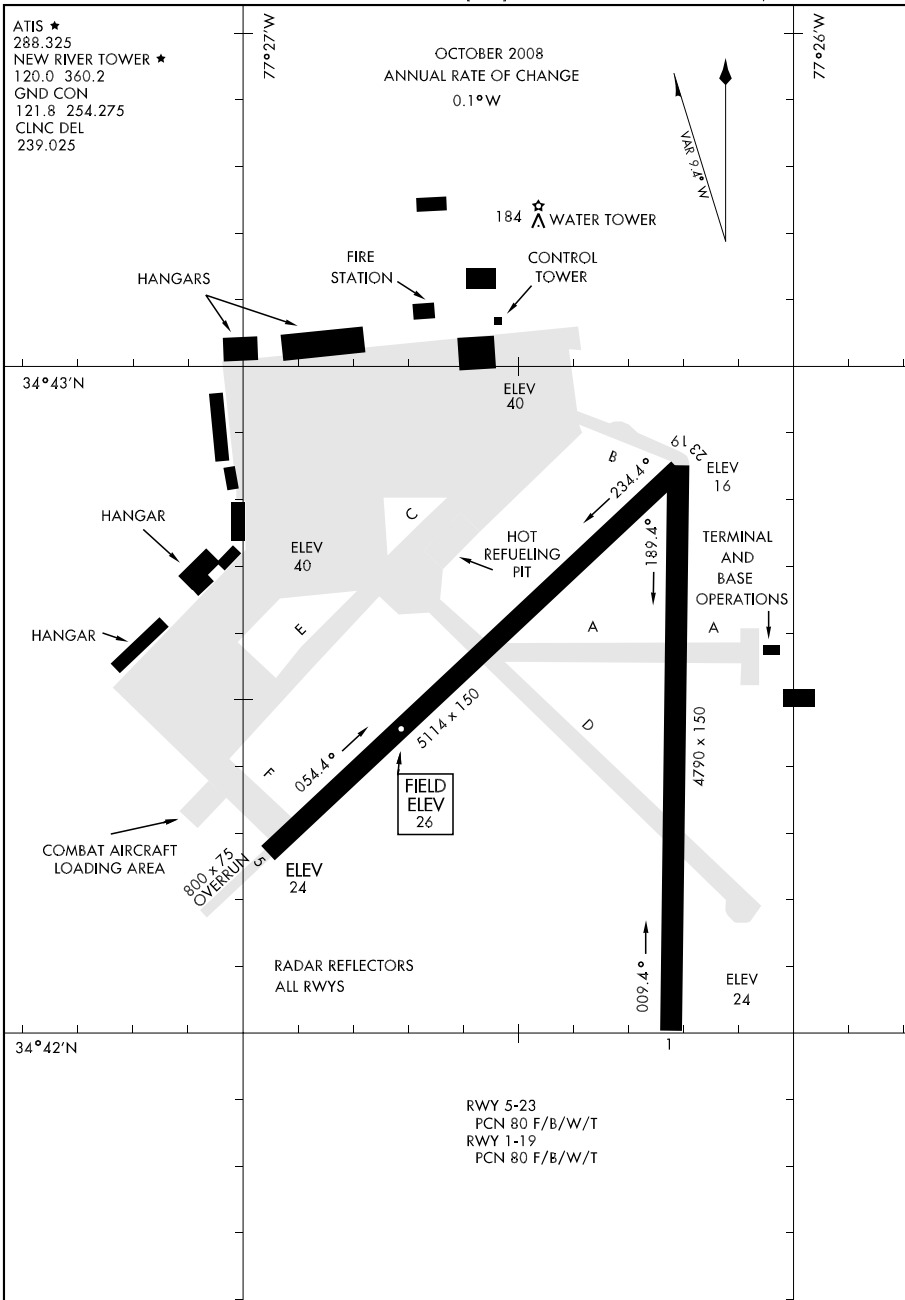
08325

AIRPORT DIAGRAM

AFD-732 [USN]

NEW RIVER MCAS (KNCA)

JACKSONVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

JACKSONVILLE, NORTH CAROLINA

NEW RIVER MCAS (KNCA)

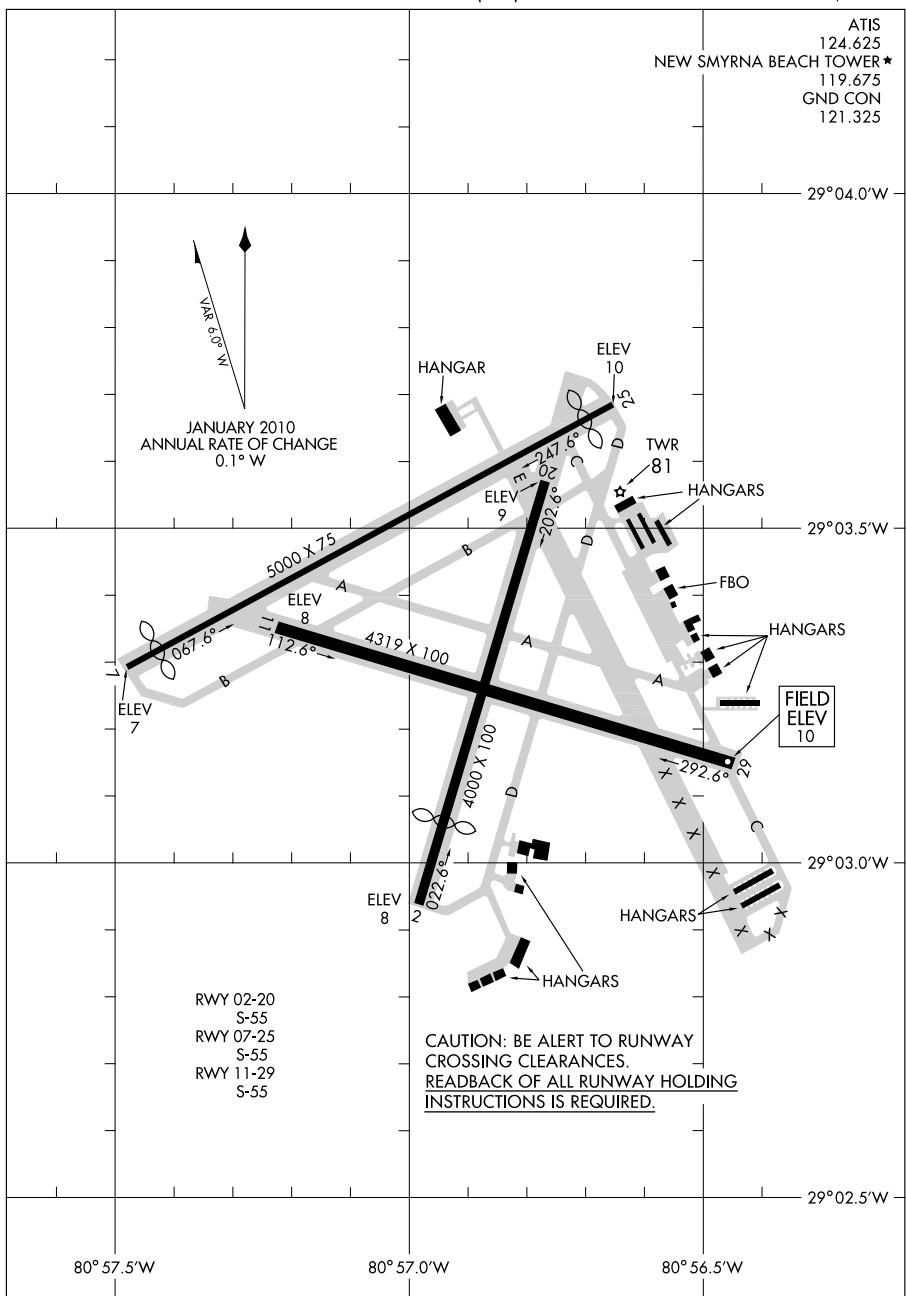
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-6459 (FAA)

NEW SMYRNA BEACH MUNI (EVV)
NEW SMYRNA BEACH, FLORIDA



AIRPORT DIAGRAM

10266

NEW SMYRNA BEACH, FLORIDA
NEW SMYRNA BEACH MUNI (EVV)

SE. 23 SEP 2010 to 18 NOV 2010

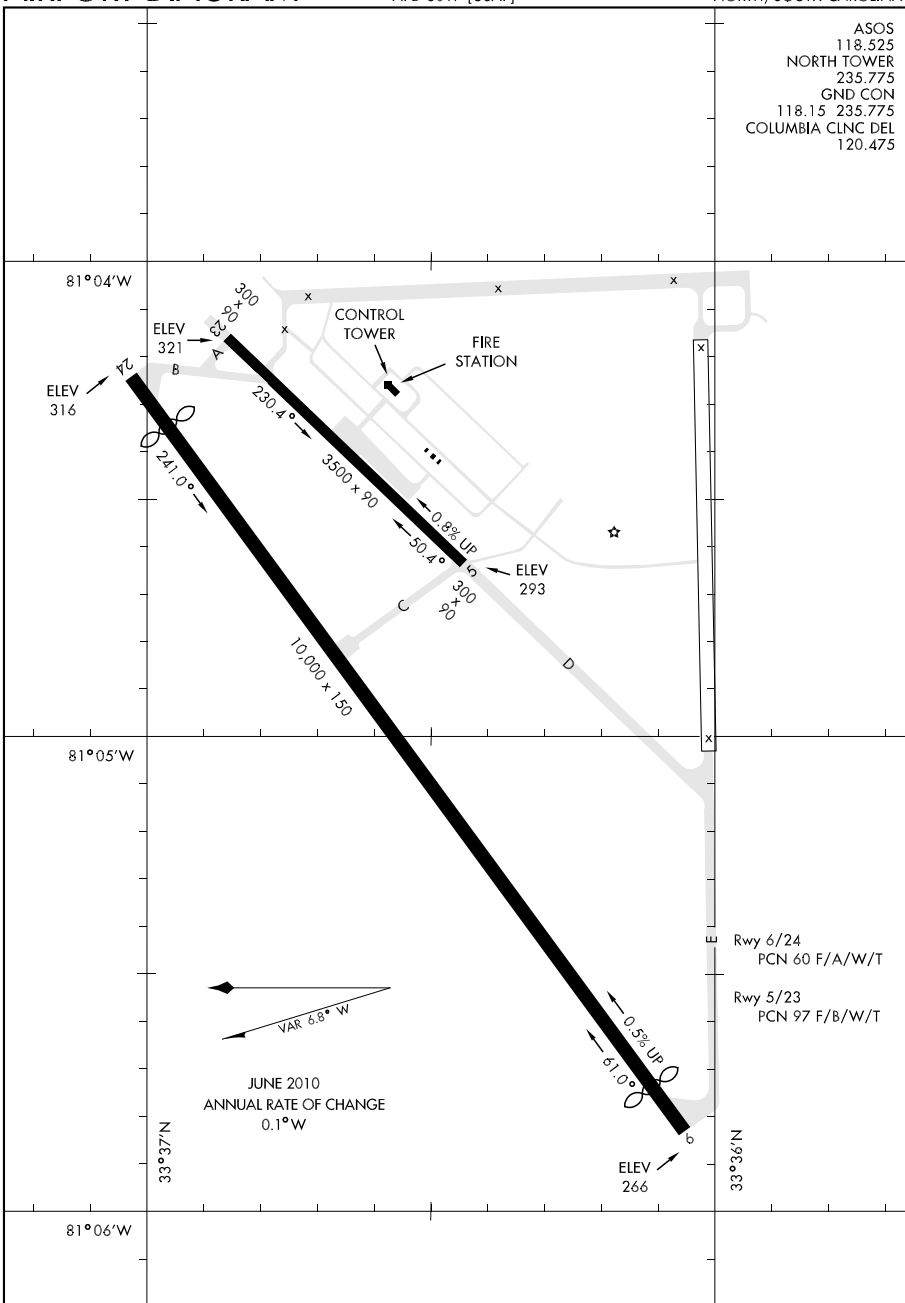
Orig 10154

AIRPORT DIAGRAM

AFD-3017 [USAF]

NORTH AF AUX (KXNO)

NORTH, SOUTH CAROLINA



AIRPORT DIAGRAM

NORTH, SOUTH CAROLINA

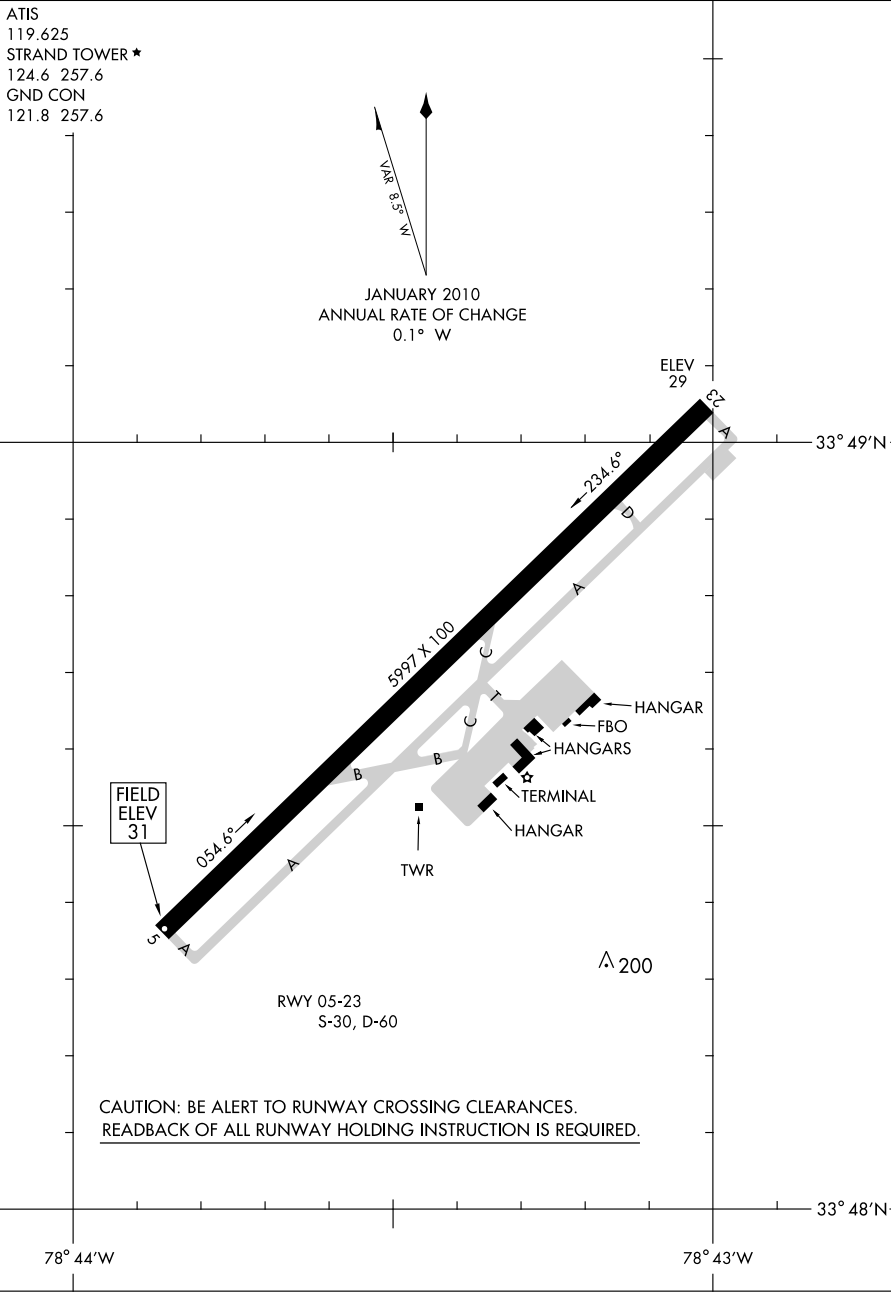
NORTH AF AUX (KXNO)

SE. 23 SEP 2010 to 18 NOV 2010

10210
AIRPORT DIAGRAM

NORTH MYRTLE BEACH/GRAND STRAND (CRE)
AL-5097 (FAA) NORTH MYRTLE BEACH, SOUTH CAROLINA

ATIS
119.625
STRAND TOWER ★
124.6 257.6
GND CON
121.8 257.6



AIRPORT DIAGRAM
10210

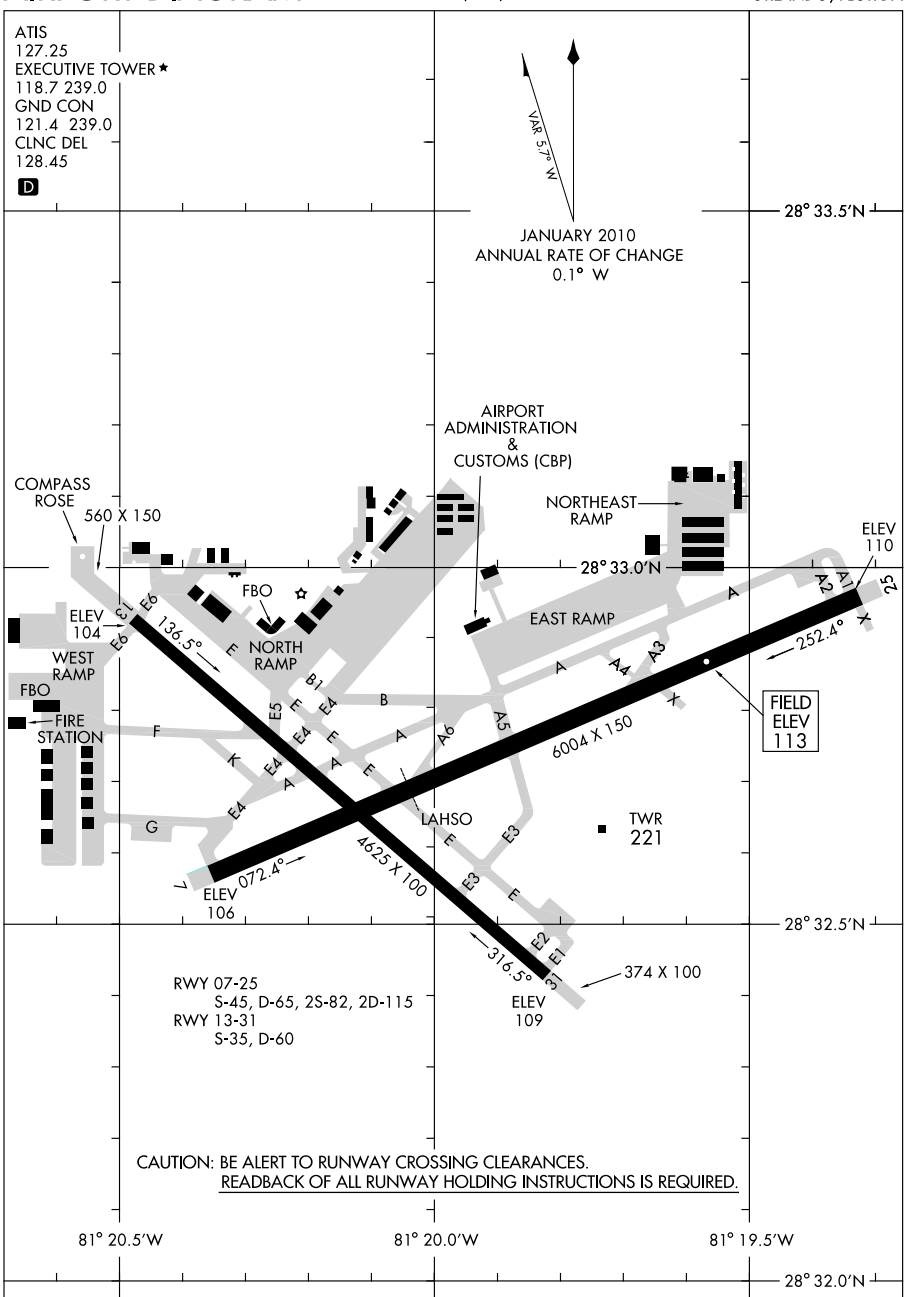
NORTH MYRTLE BEACH, SOUTH CAROLINA
NORTH MYRTLE BEACH/GRAND STRAND (CRE)

10266

AIRPORT DIAGRAM

AL-305 (FAA)

ORLANDO/EXECUTIVE (ORL)
ORLANDO, FLORIDA



AIRPORT DIAGRAM

10266

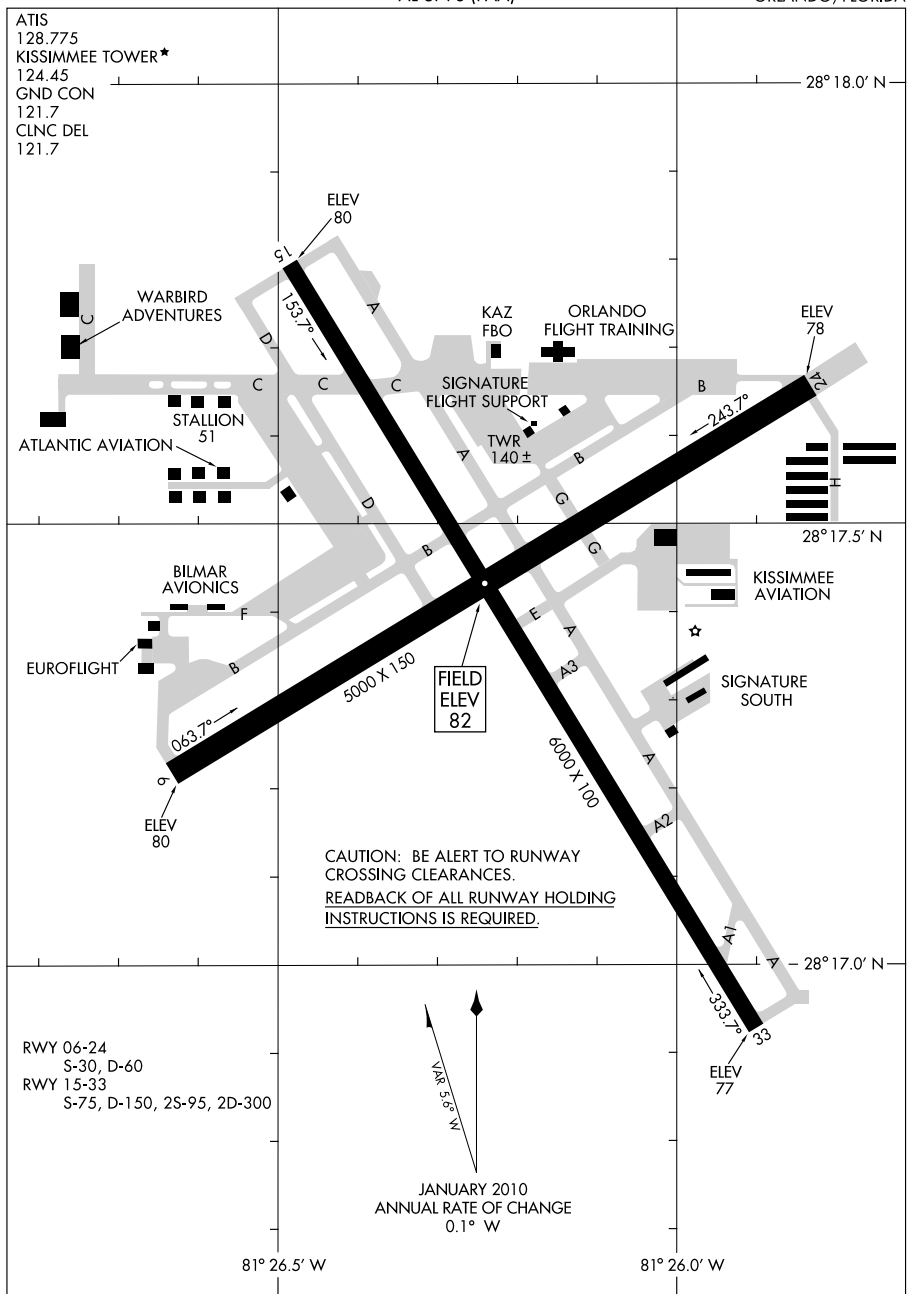
ORLANDO, FLORIDA
ORLANDO/EXECUTIVE (ORL)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

ORLANDO/KISSIMMEE GATEWAY (ISM)
AL-5793 (FAA) ORLANDO, FLORIDA



AIRPORT DIAGRAM

10210

ORLANDO, FLORIDA
ORLANDO/KISSIMMEE GATEWAY (ISM)

SE. 23 SEP 2010 to 18 NOV 2010

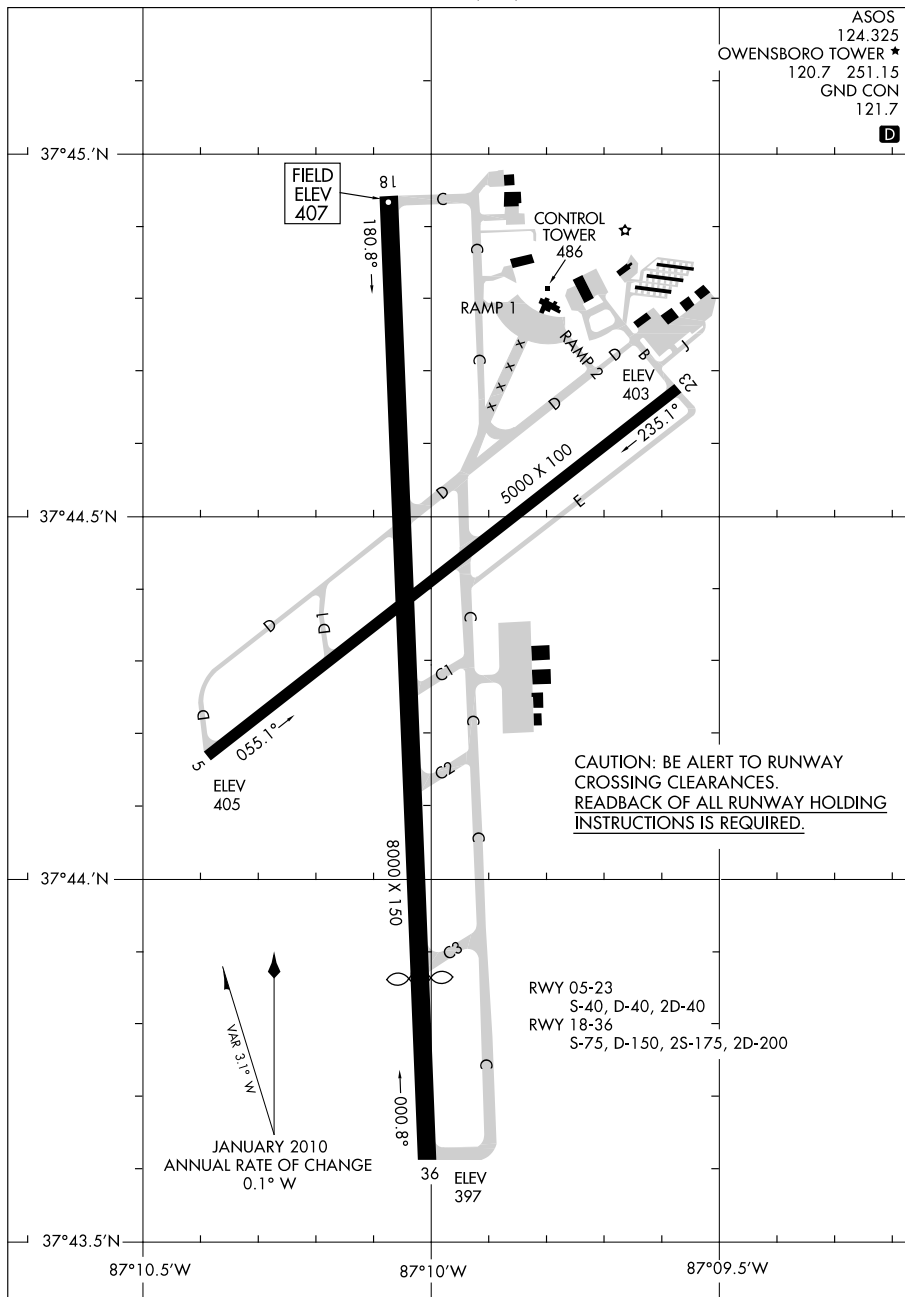


SE, 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-707 (FAA) OWENSBORO-DAVIESS COUNTY (OWB)
OWENSBORO, KENTUCKY



AIRPORT DIAGRAM

10210

OWENSBORO, KENTUCKY
OWENSBORO-DAVIESS COUNTY (OWB)

SE. 23 SEP 2010 to 18 NOV 2010

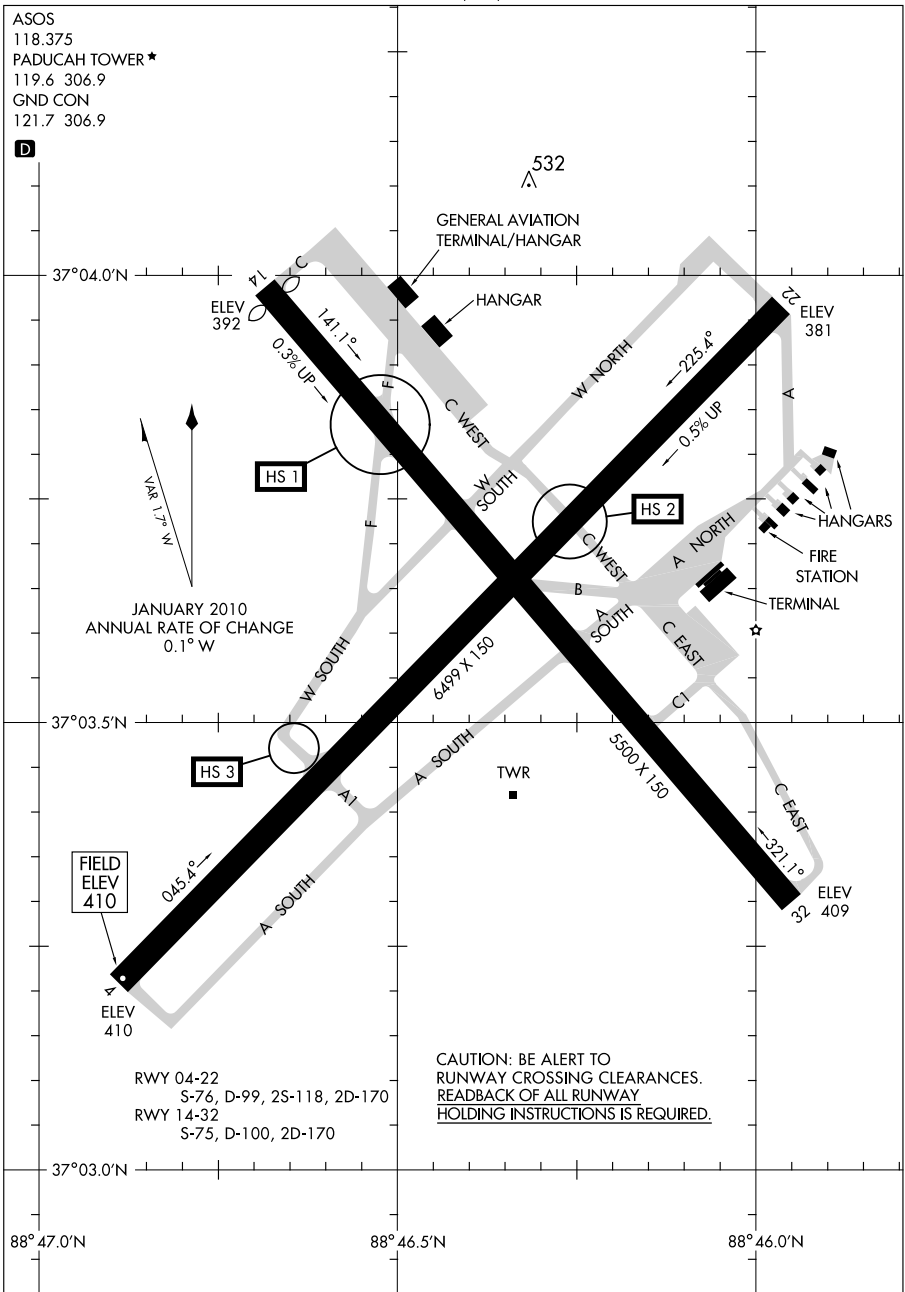
10266

AIRPORT DIAGRAM

PADUCAH/BARKLEY RGNL (PAH)

PADUCAH, KENTUCKY

AL-628 (FAA)



AIRPORT DIAGRAM

10266

PADUCAH, KENTUCKY
PADUCAH/BARKLEY RGNL (PAH)

SE. 23 SEP 2010 to 18 NOV 2010

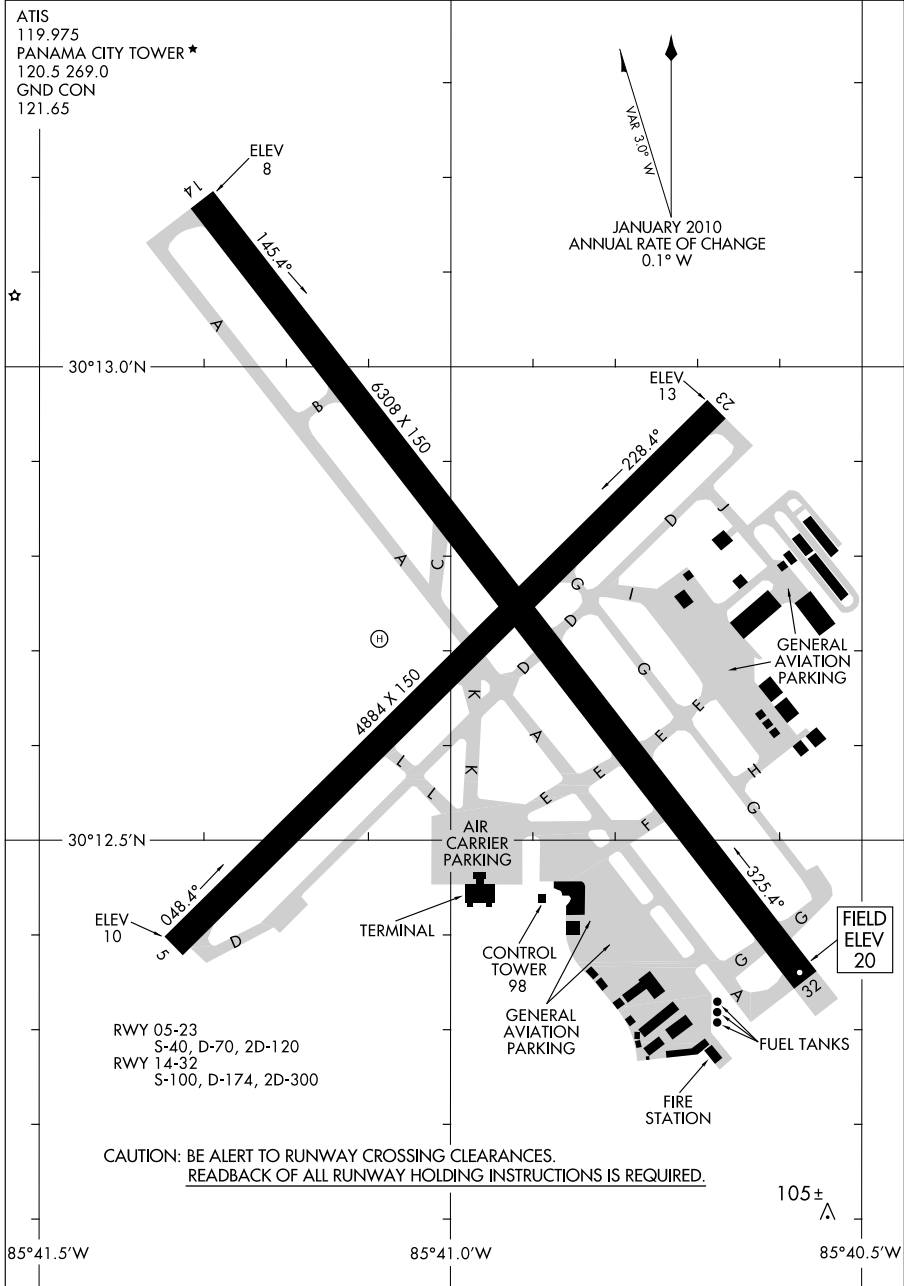
10210

AIRPORT DIAGRAM

AL-695 (FAA)

PANAMA CITY-BAY COUNTY INTL (P'N)

PANAMA CITY, FLORIDA



AIRPORT DIAGRAM

10210

 PANAMA CITY, FLORIDA
 PANAMA CITY-BAY COUNTY INTL (P'N)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)
AL-10416 (FAA)

PANAMA CITY, FLORIDA

ATIS
119.975
PANAMA CITY TOWER ★
118.95
GND CON
121.65

D

FIELD
ELEV
69

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

TERMINAL

TWR

MAINTENANCE

FIRE STATION

HANGARS

HELICOPTER
PARKING

RWY 16-34

S-100, D-155, 2D-400, 2D/2D2-750

10000 X 151.00

VAR 2° 30' W

JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W

ELEV
54

85°48'W

85°47'W

AIRPORT DIAGRAM

PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)
PANAMA CITY, FLORIDA

10210

SE. 23 SEP 2010 to 18 NOV 2010

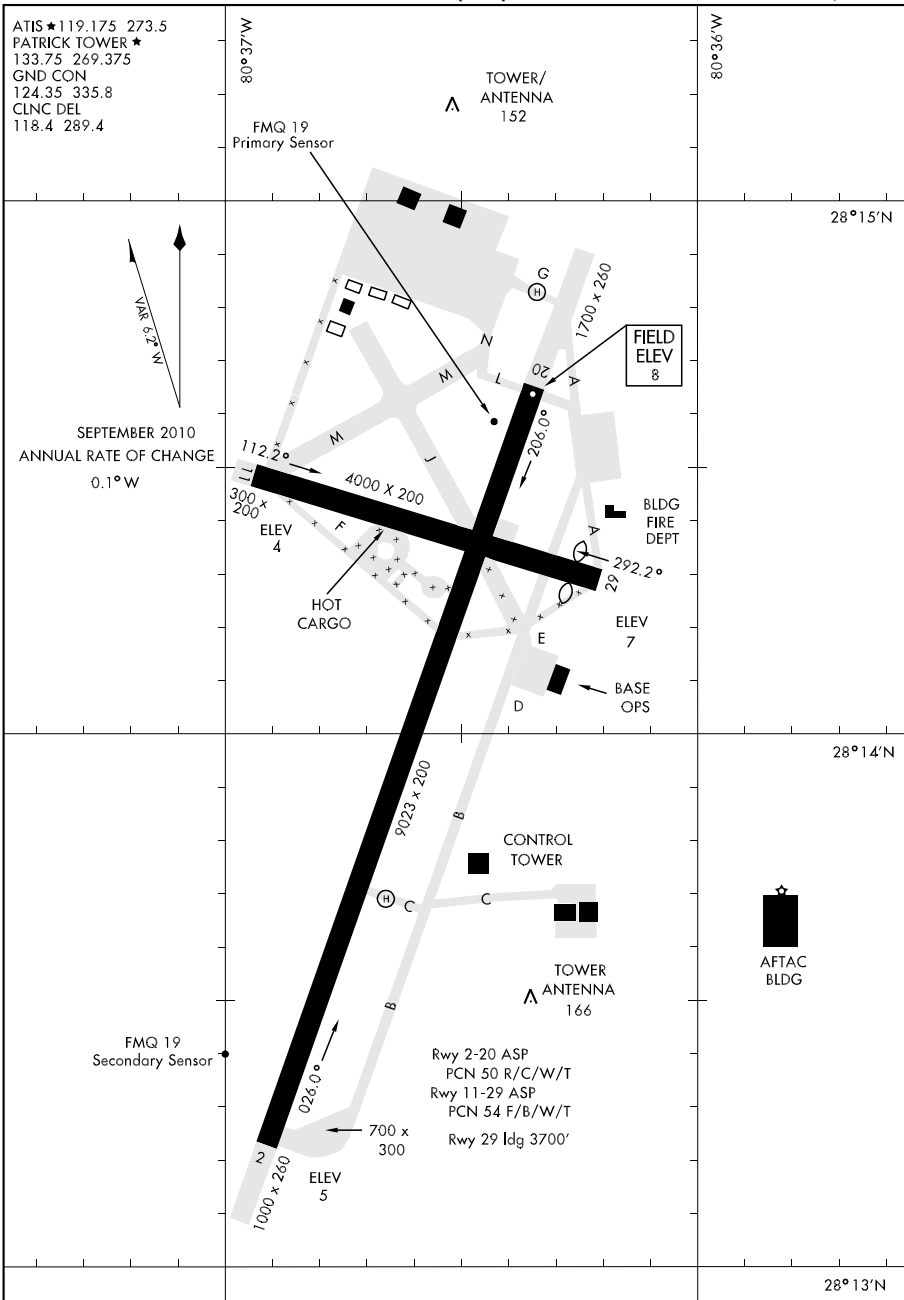
10266

AIRPORT DIAGRAM

AFD-38 [USAF]

PATRICK AFB (KCOF)

COCOA BEACH, FLORIDA



AIRPORT DIAGRAM

COCOA BEACH, FLORIDA

PATRICK AFB (KCOF)

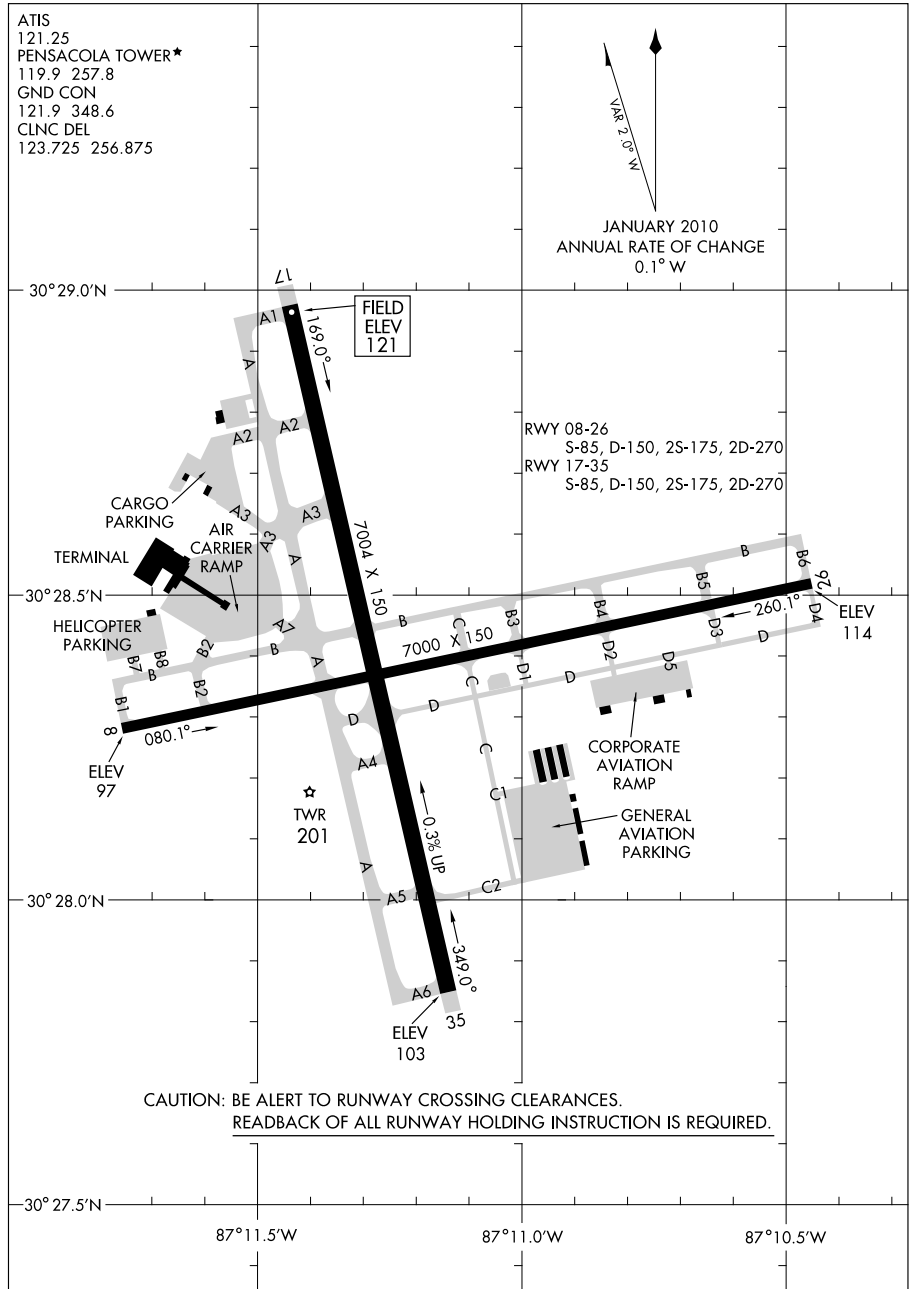
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-318 (FAA)

PENSACOLA GULF COAST RGNL (PNS)
PENSACOLA, FLORIDA



AIRPORT DIAGRAM

10266

PENSACOLA, FLORIDA
PENSACOLA GULF COAST RGNL (PNS)

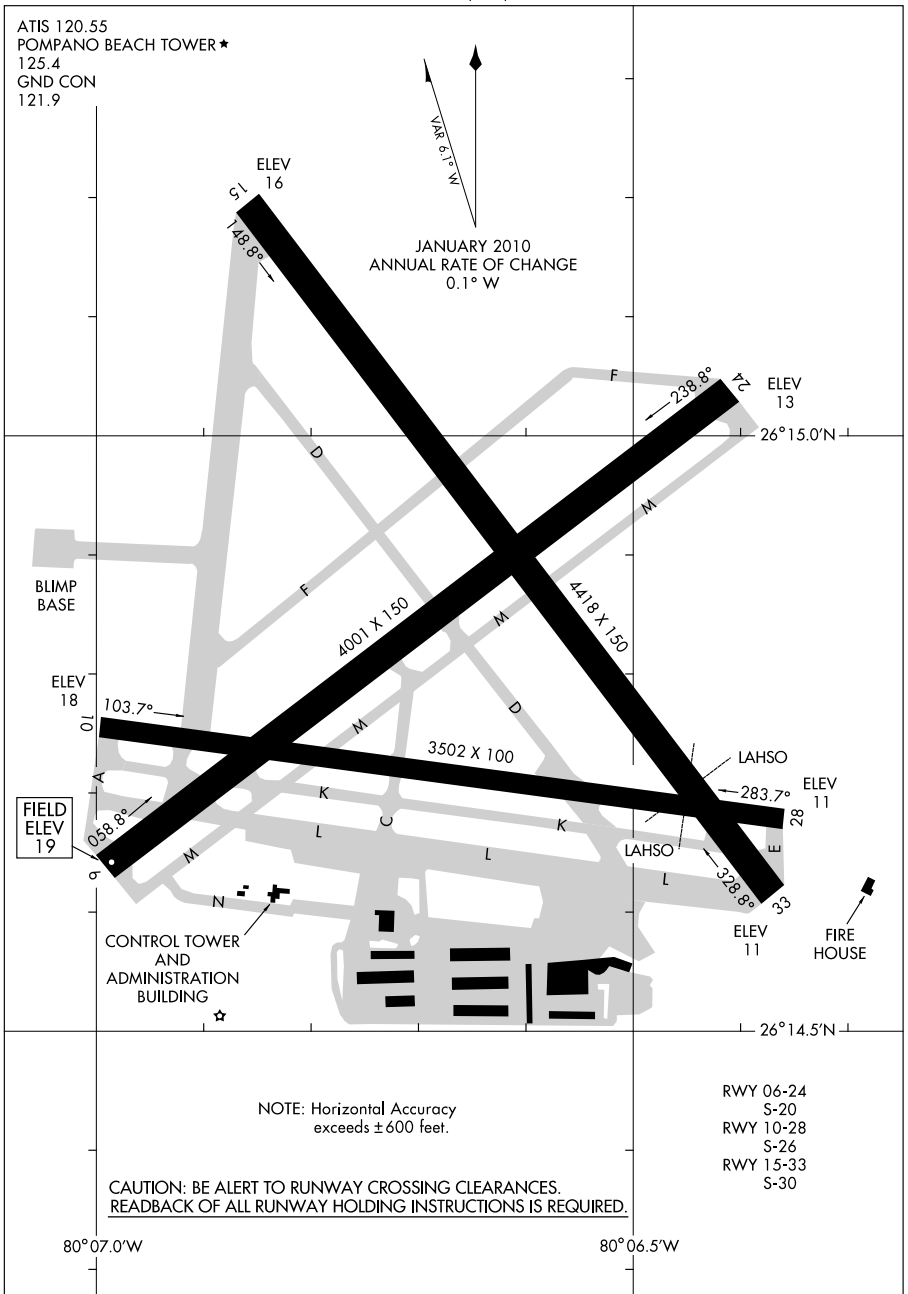
SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

POMPANO BEACH AIRPARK (PMP)
POMPANO BEACH, FLORIDA

AL-5972 (FAA)

ATIS 120.55
POMPANO BEACH TOWER ★
125.4
GND CON
121.9



AIRPORT DIAGRAM

POMPANO BEACH, FLORIDA
POMPANO BEACH AIRPARK (PMP)

10210

SE. 23 SEP 2010 to 18 NOV 2010

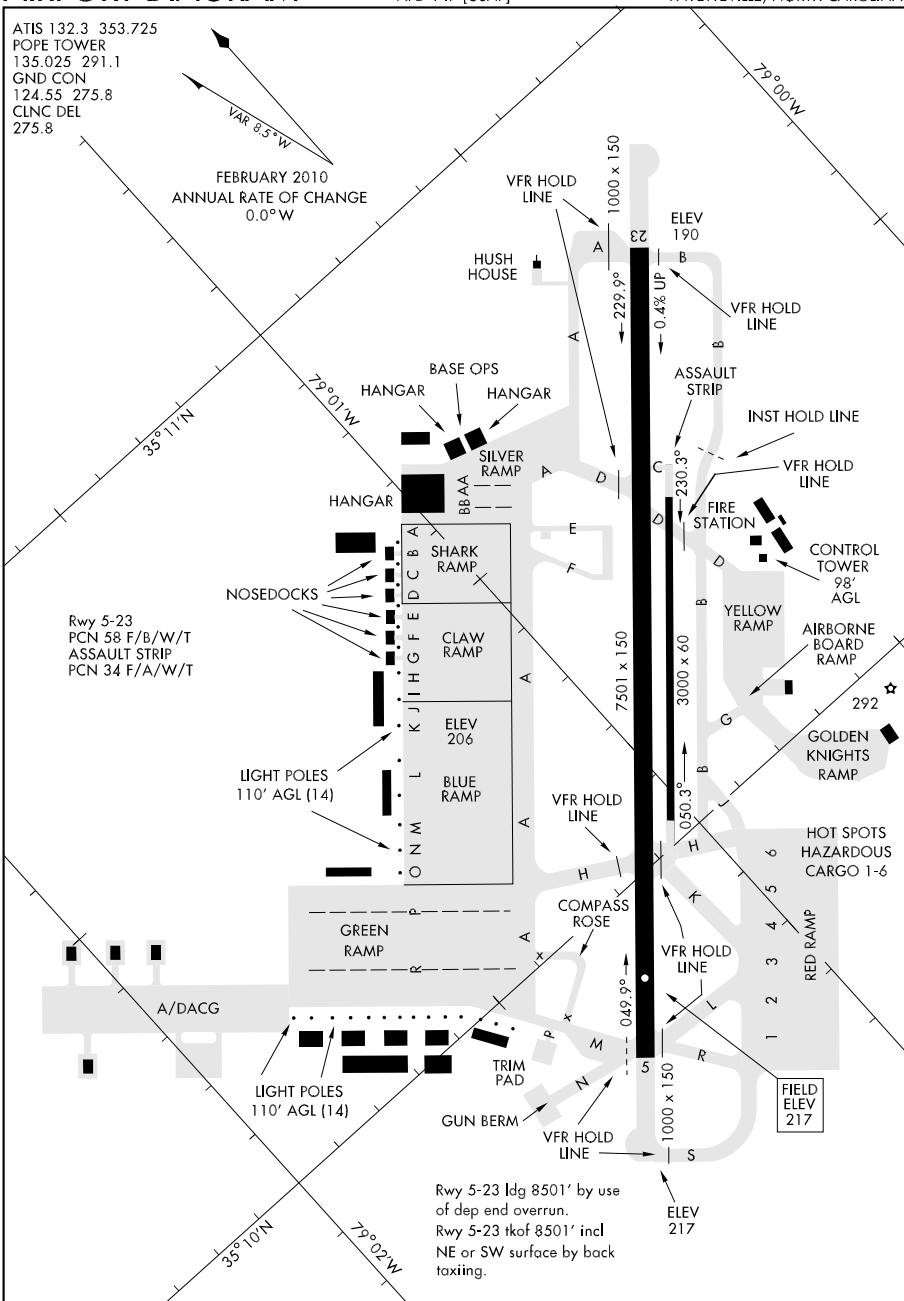
10042

AIRPORT DIAGRAM

AFD-147 [USAF]

POPE AFB (KPOB)

FAYETTEVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

FAYETTEVILLE, NORTH CAROLINA

POPE AFB (KPOB)

SE. 23 SEP 2010 to 18 NOV 2010

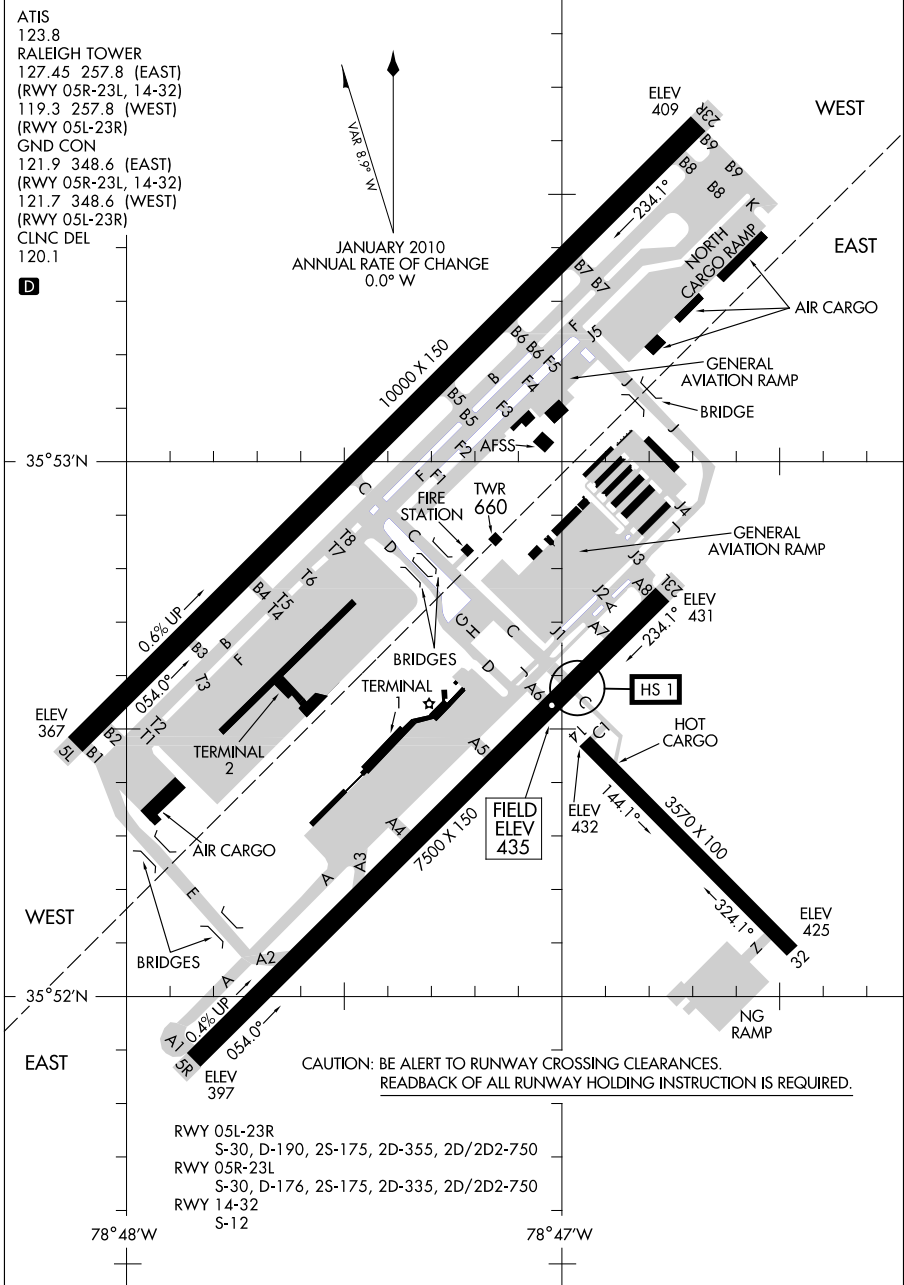
10266

AIRPORT DIAGRAM

AL-516 (FAA)

RALEIGH-DURHAM INTL (RDU)

RALEIGH/DURHAM, NORTH CAROLINA



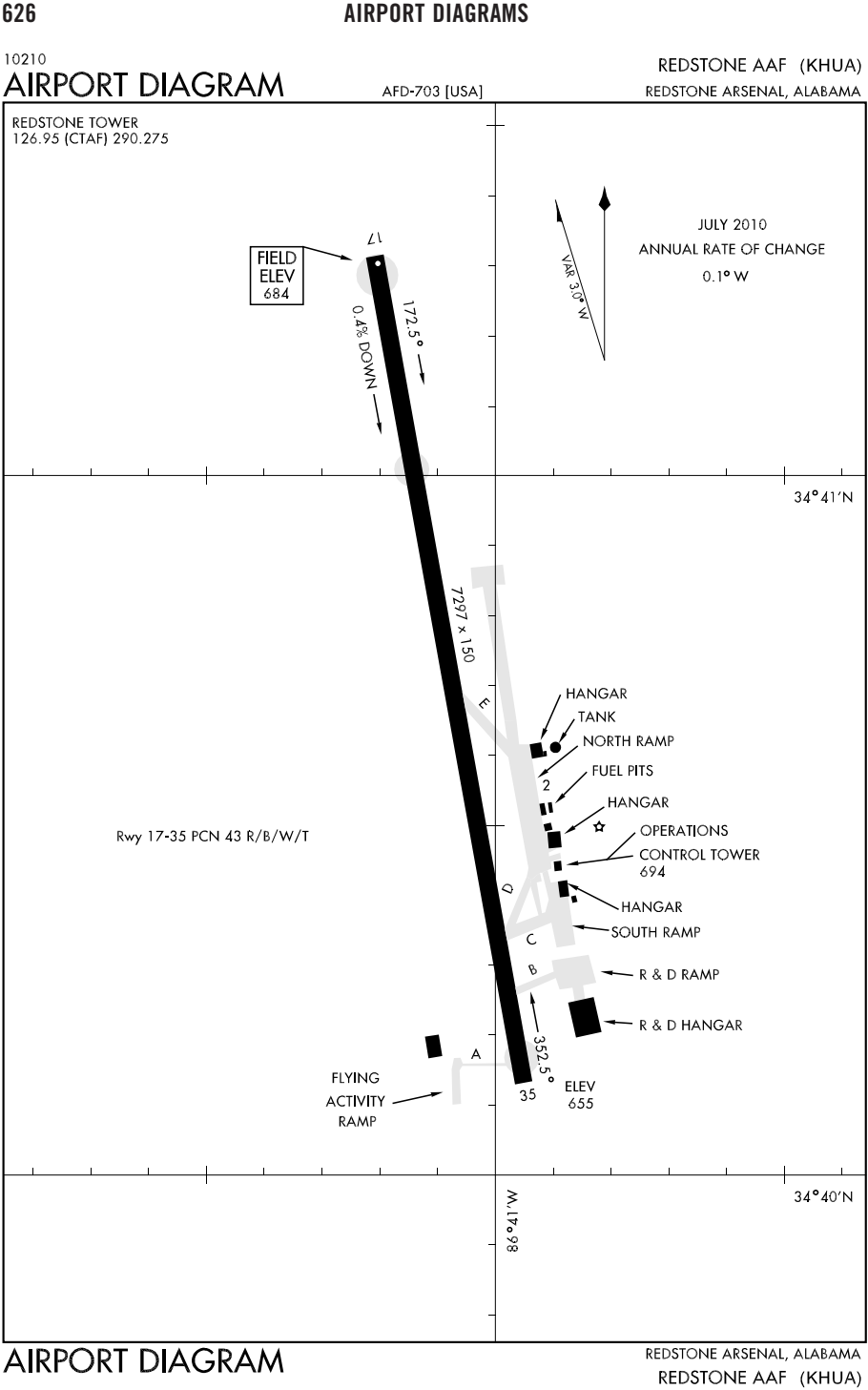
AIRPORT DIAGRAM

10266

RALEIGH/DURHAM, NORTH CAROLINA

RALEIGH-DURHAM INTL (RDU)

SE. 23 SEP 2010 to 18 NOV 2010

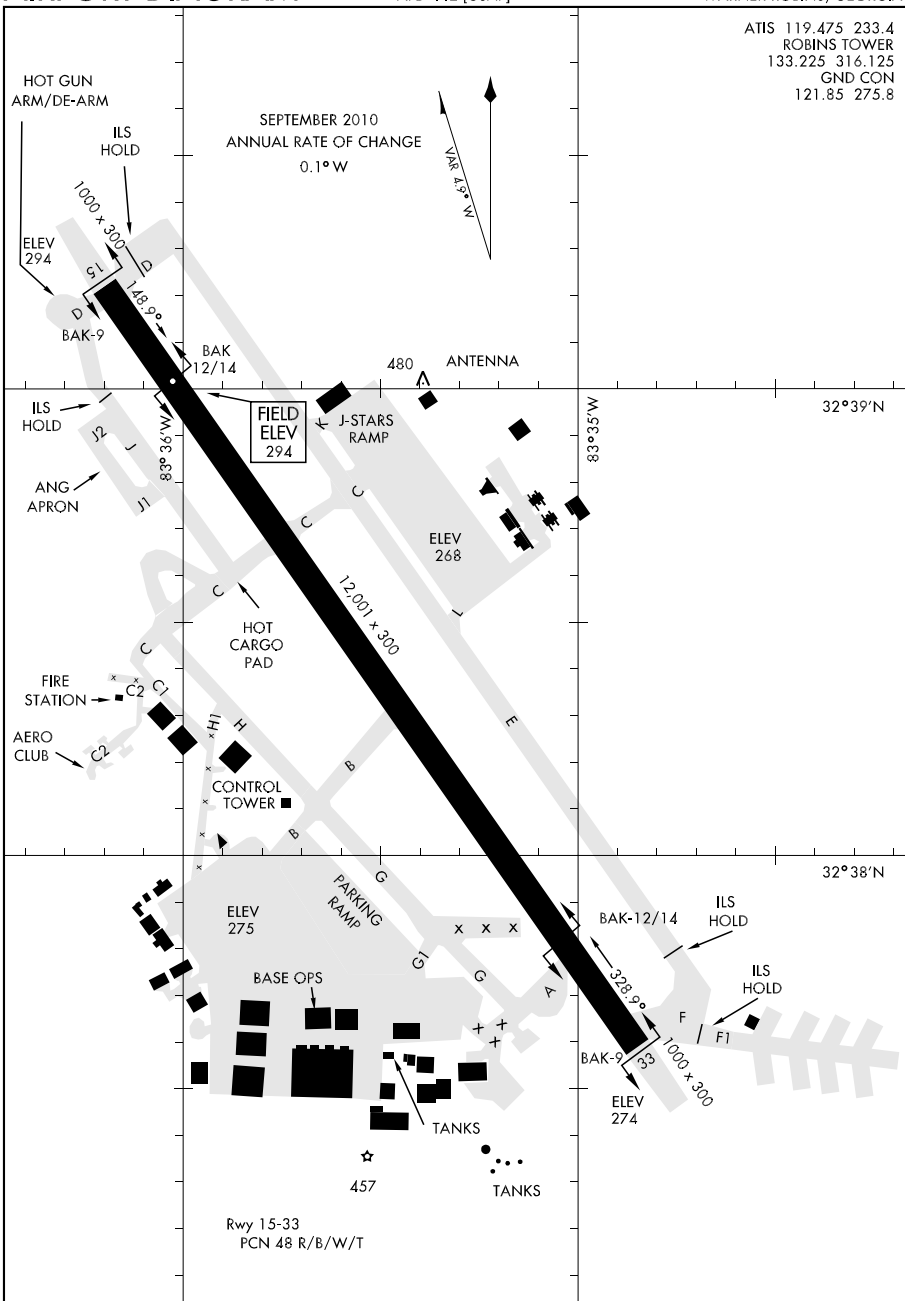


AIRPORT DIAGRAM

WARNER ROBINS, GEORGIA

ATIS 119.475 233.4
ROBINS TOWER
133.225 316.125
GND CON
121.85 275.8

AFD-442 [USAF]



AIRPORT DIAGRAM

WARNER ROBINS, GEORGIA
ROBINS AFB (KWRB)

SE, 23 SEP 2010 to 18 NOV 2010

10210

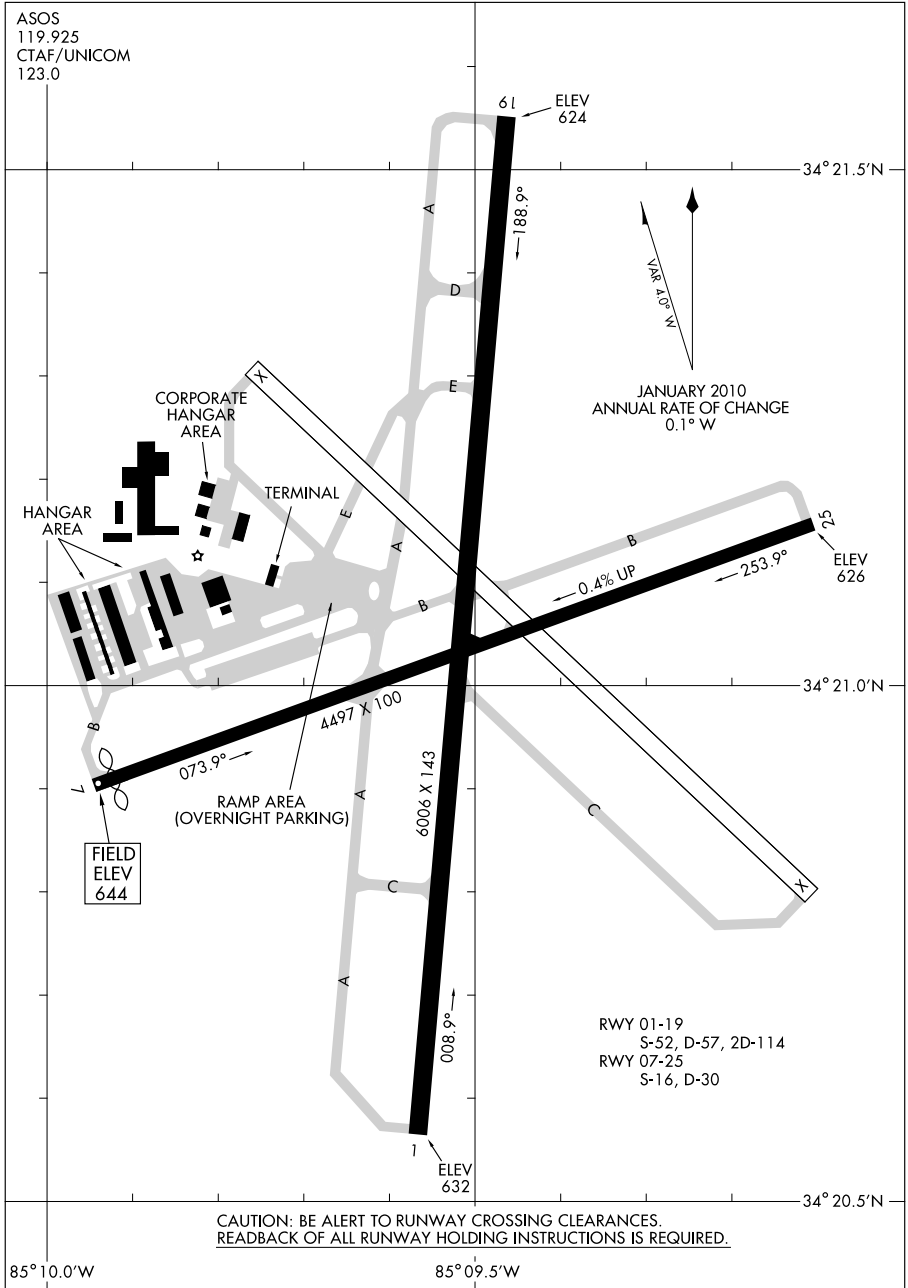
AIRPORT DIAGRAM

AL-855 (FAA)

ROME/ RICHARD B. RUSSELL (RMG)

ROME, GEORGIA

ASOS
119.925
CTAF/UNICOM
123.0



AIRPORT DIAGRAM

10210

ROME, GEORGIA

ROME/ RICHARD B. RUSSELL (RMG)

SE. 23 SEP 2010 to 18 NOV 2010

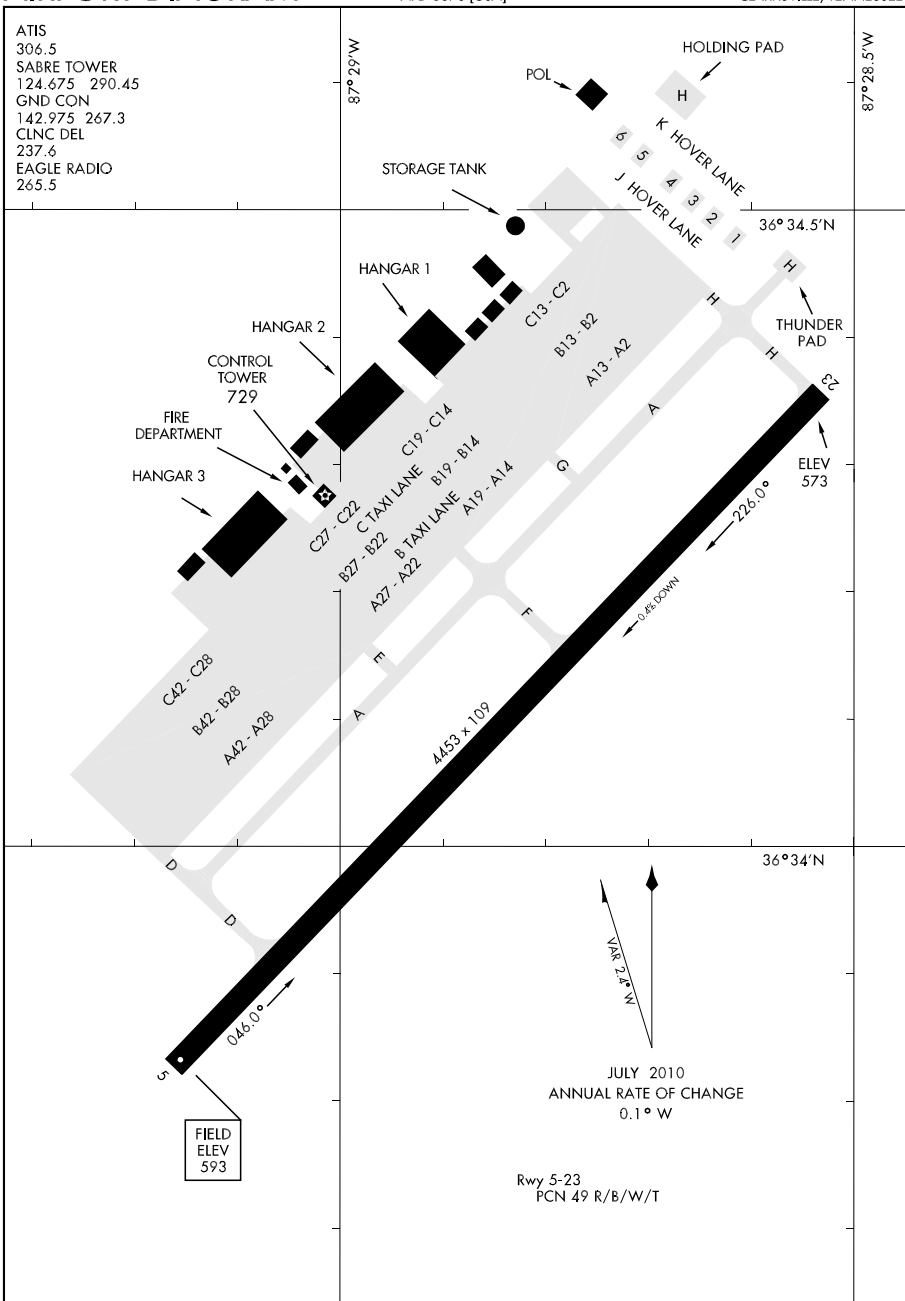
Orig 10210

AIRPORT DIAGRAM

SABRE AHP (FORT CAMPBELL) (KEOD)

AFD-6373 [USA]

CLARKSVILLE, TENNESSEE



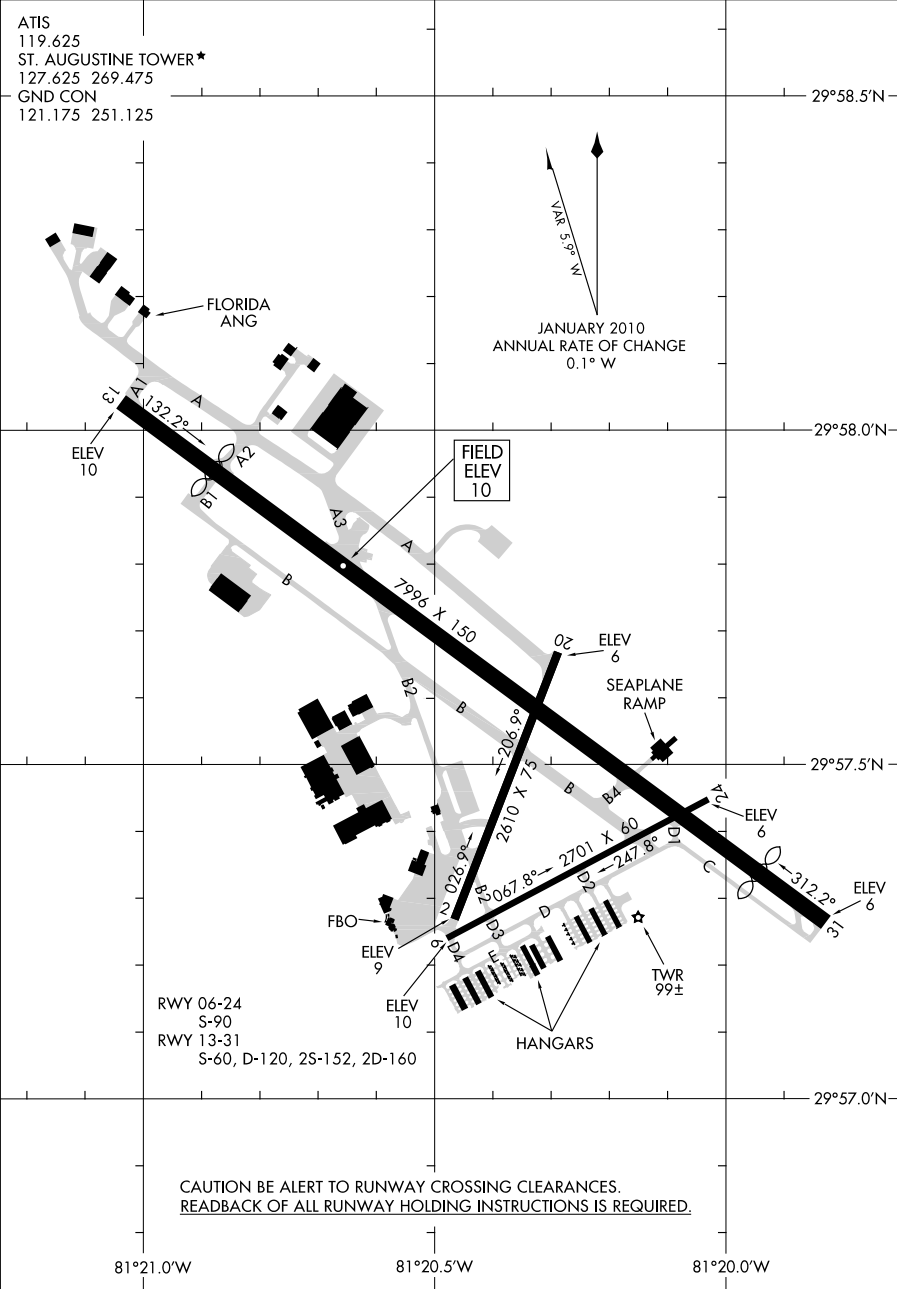
AIRPORT DIAGRAM

CLARKSVILLE, TENNESSEE
 SABRE AHP (FORT CAMPBELL) (KEOD)

10210
AIRPORT DIAGRAM

AL-692 (FAA)

ST. AUGUSTINE (SGJ)
ST. AUGUSTINE, FLORIDA



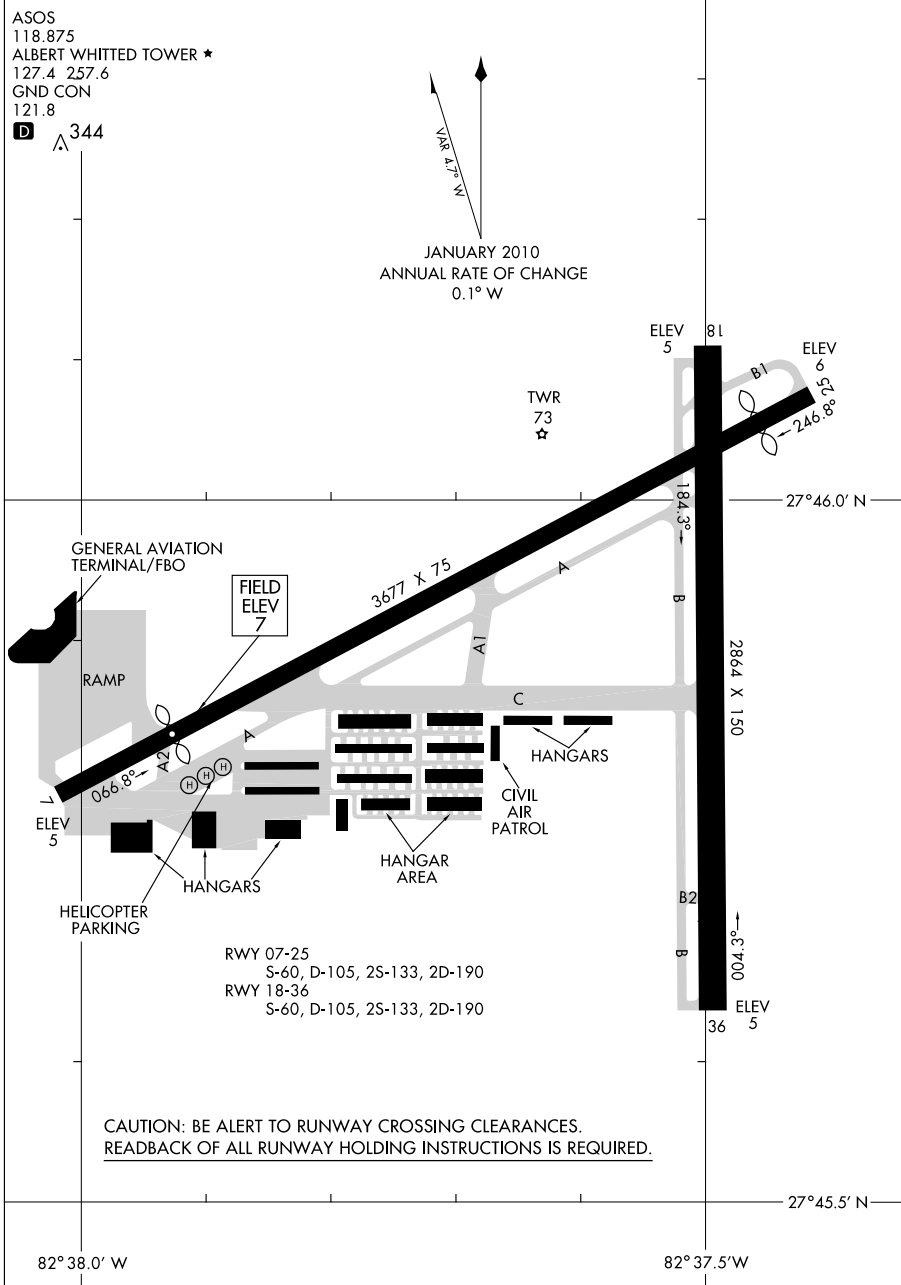
AIRPORT DIAGRAM
10210

ST. AUGUSTINE, FLORIDA
ST. AUGUSTINE (SGJ)

10266
AIRPORT DIAGRAM

AL-613 (FAA)

ST. PETERSBURG/ALBERT WHITTET (SPG)
ST. PETERSBURG, FLORIDA



AIRPORT DIAGRAM

ST. PETERSBURG, FLORIDA
ST. PETERSBURG/ALBERT WHITTET (SPG)

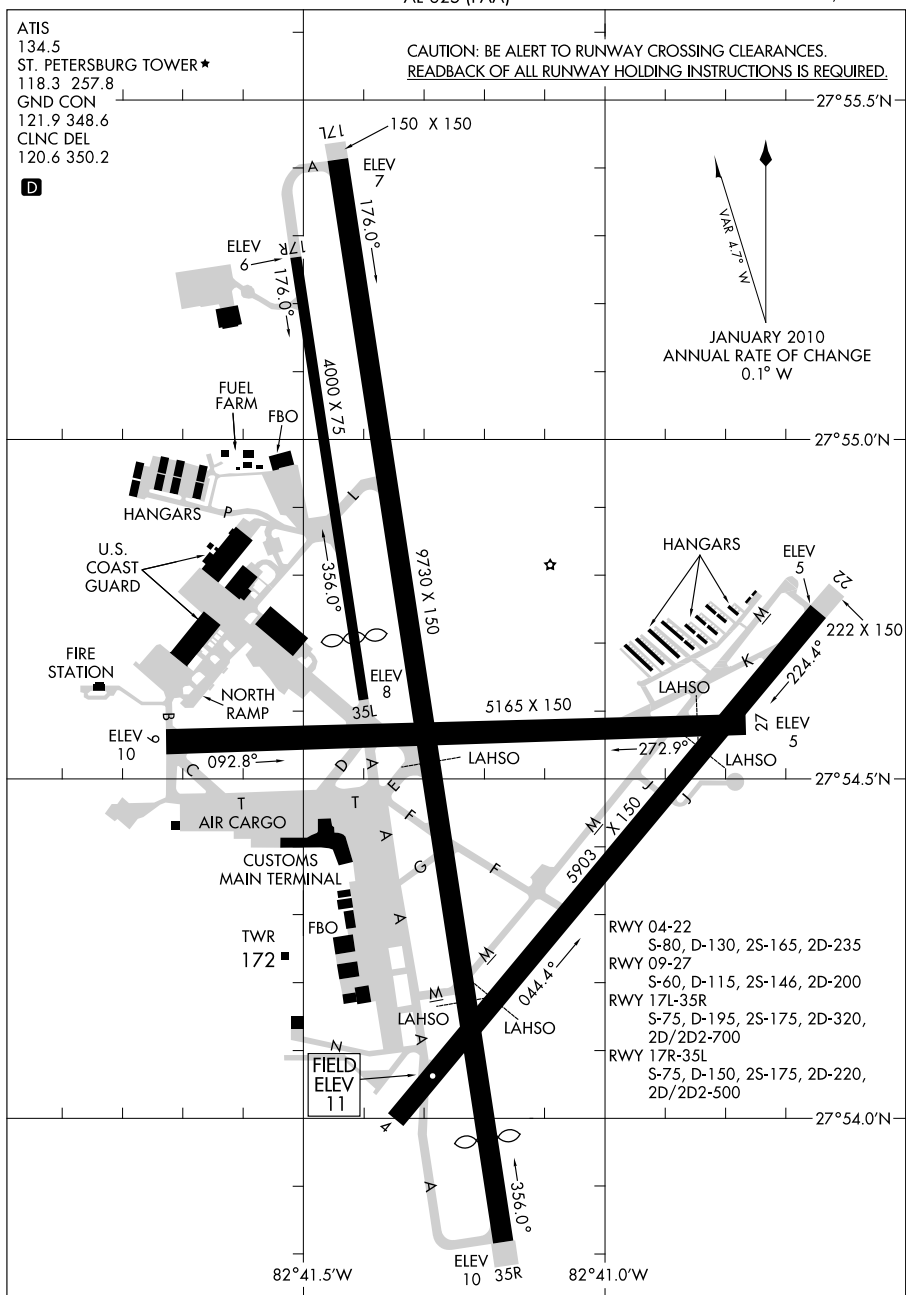
AIRPORT DIAGRAM

10266

ST. PETERSBURG-CLEARWATER INTL (PIE)

AL-625 (FAA)

ST. PETERSBURG-CLEARWATER, FLORIDA



AIRPORT DIAGRAM

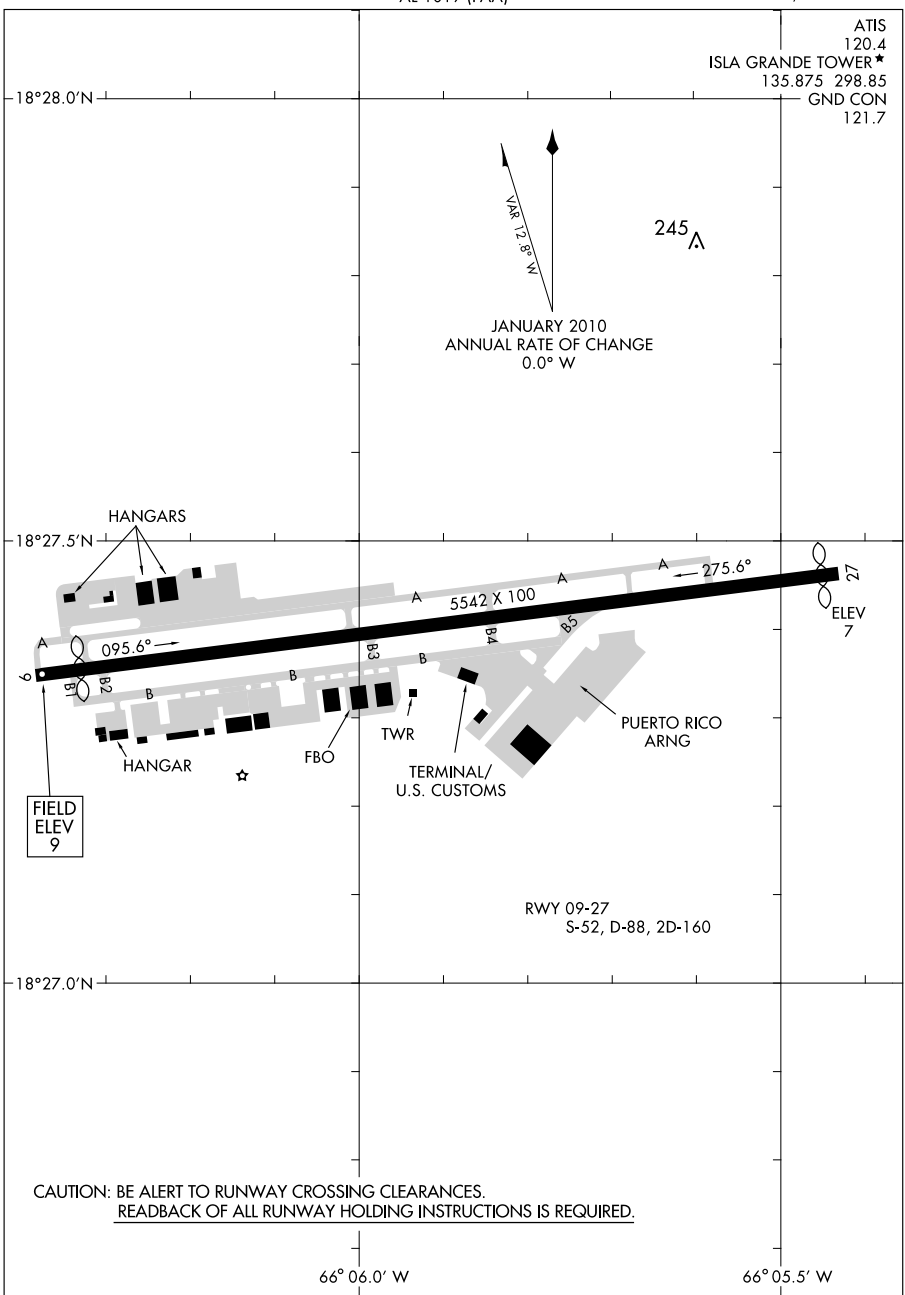
10266

ST. PETERSBURG-CLEARWATER, FLORIDA
ST. PETERSBURG-CLEARWATER INTL (PIE)

SE. 23 SEP 2010 to 18 NOV 2010

10266
AIRPORT DIAGRAM

SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)
AL-1019 (FAA) SAN JUAN, PUERTO RICO



10266
AIRPORT DIAGRAM

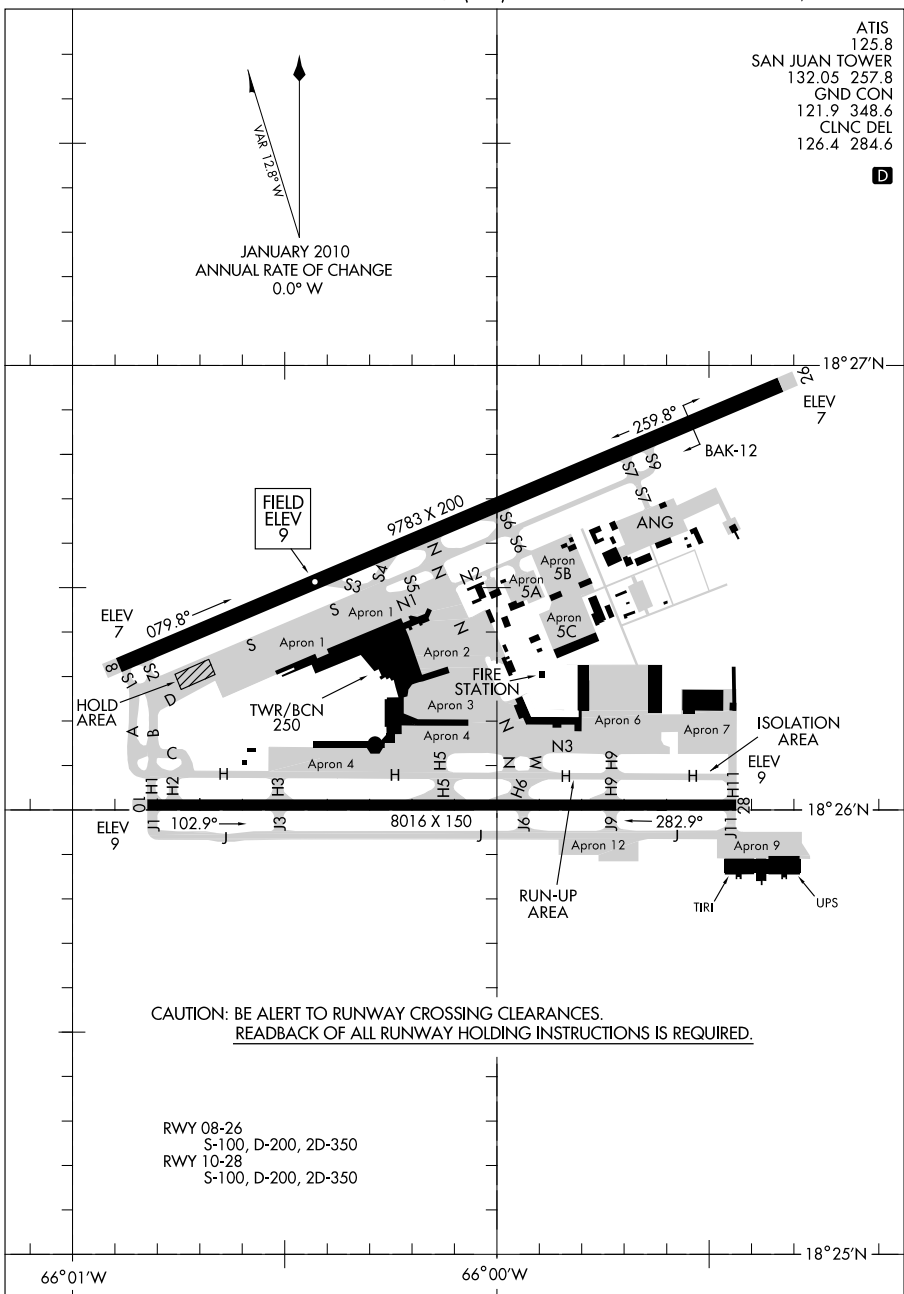
SAN JUAN, PUERTO RICO
SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

10210

AIRPORT DIAGRAM

SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)
AL-784 (FAA)

SAN JUAN, PUERTO RICO



AIRPORT DIAGRAM

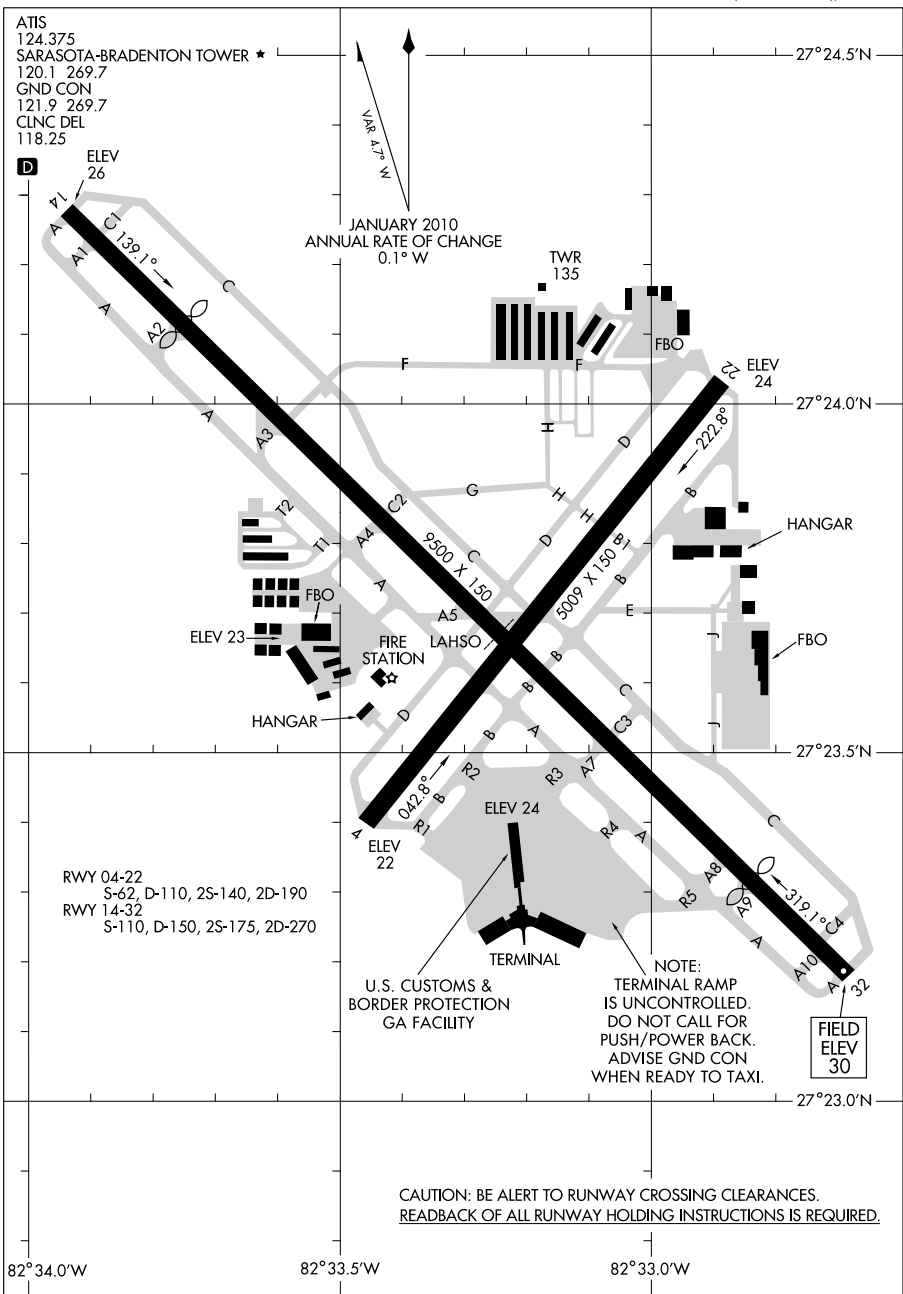
10210

SAN JUAN, PUERTO RICO
SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)

SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

SARASOTA/BRADENTON INTL (SRQ)
SARASOTA (BRADENTON), FLORIDA

AIRPORT DIAGRAM

10210

SARASOTA (BRADENTON), FLORIDA
SARASOTA/BRADENTON INTL (SRQ)

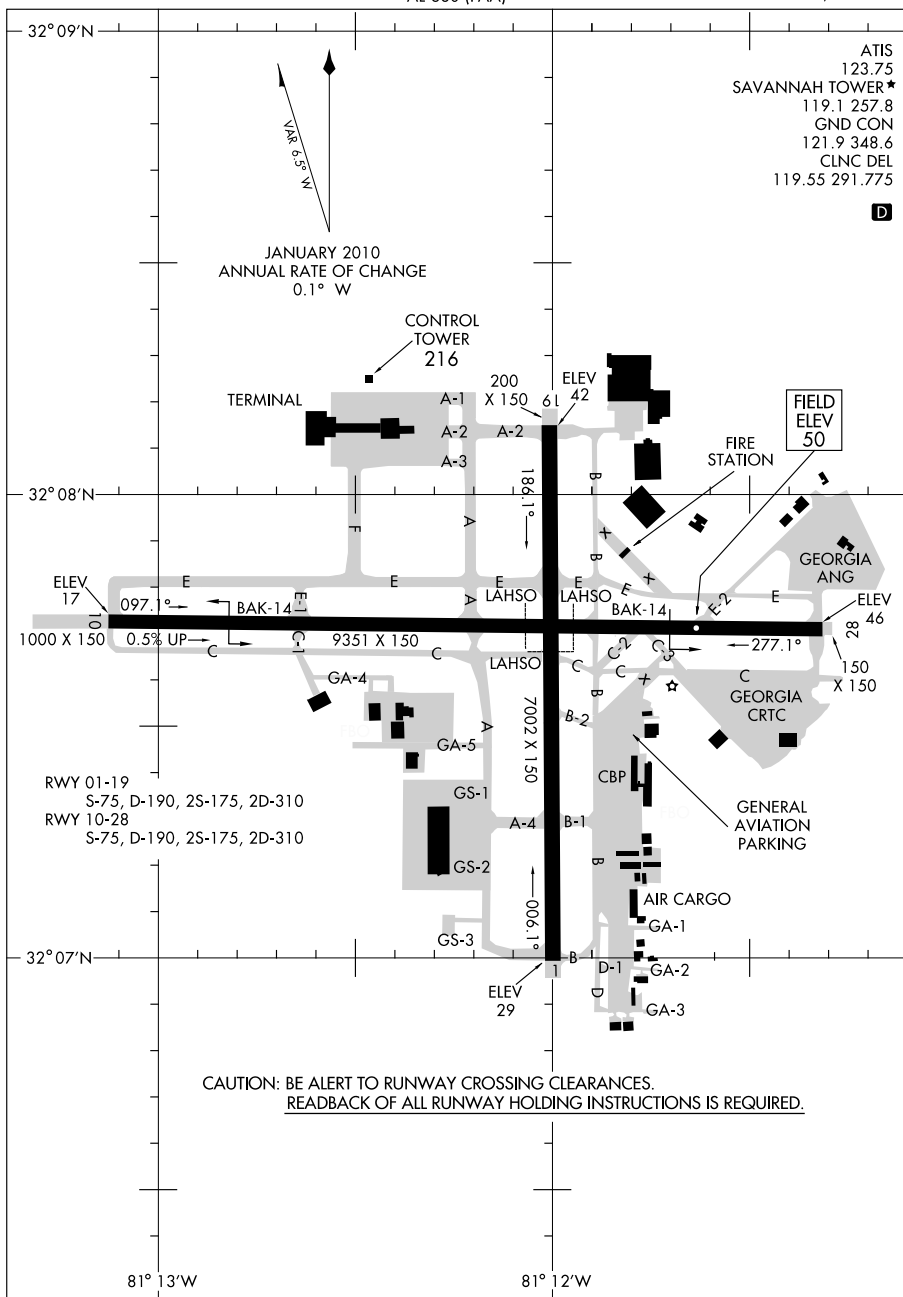
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-380 (FAA)

SAVANNAH/HILTON HEAD INTL (SAV)
SAVANNAH, GEORGIA



AIRPORT DIAGRAM

10210

SAVANNAH, GEORGIA
SAVANNAH/HILTON HEAD INTL (SAV)

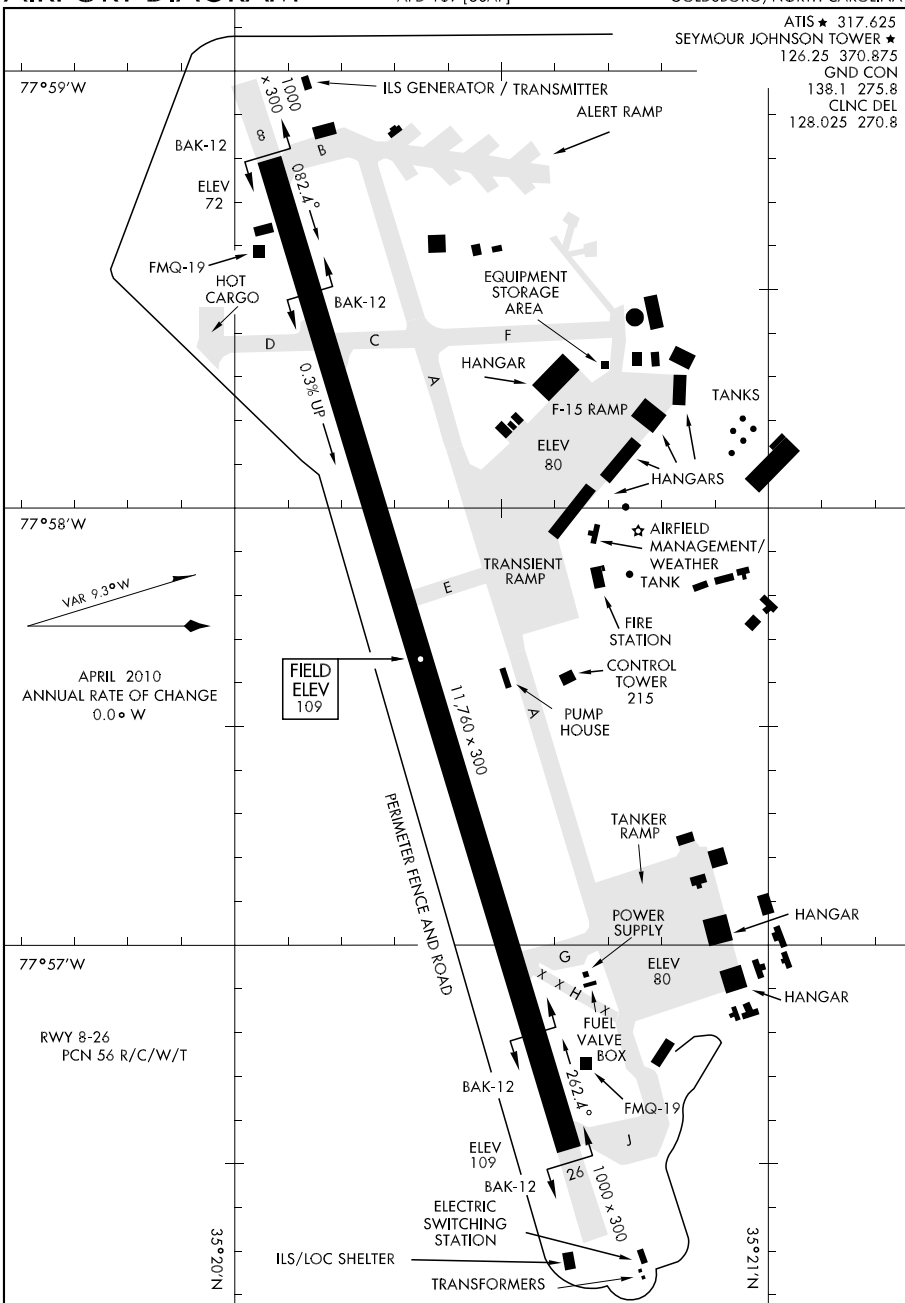
SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

GOLDSBORO, NORTH CAROLINA

AFD-169 [USAF]

| | |
|-------------------------|----------------|
| ATIS ★ | 317.625 |
| SEYMOUR JOHNSON TOWER ★ | |
| | 126.25 370.875 |
| GND CON | |
| | 138.1 275.8 |
| CLNC DEL | |
| | 128.025 270.8 |



AIRPORT DIAGRAM

SEYMOUR JOHNSON AFB (KGSB)

SE. 23 SEP 2010 to 18 NOV 2010

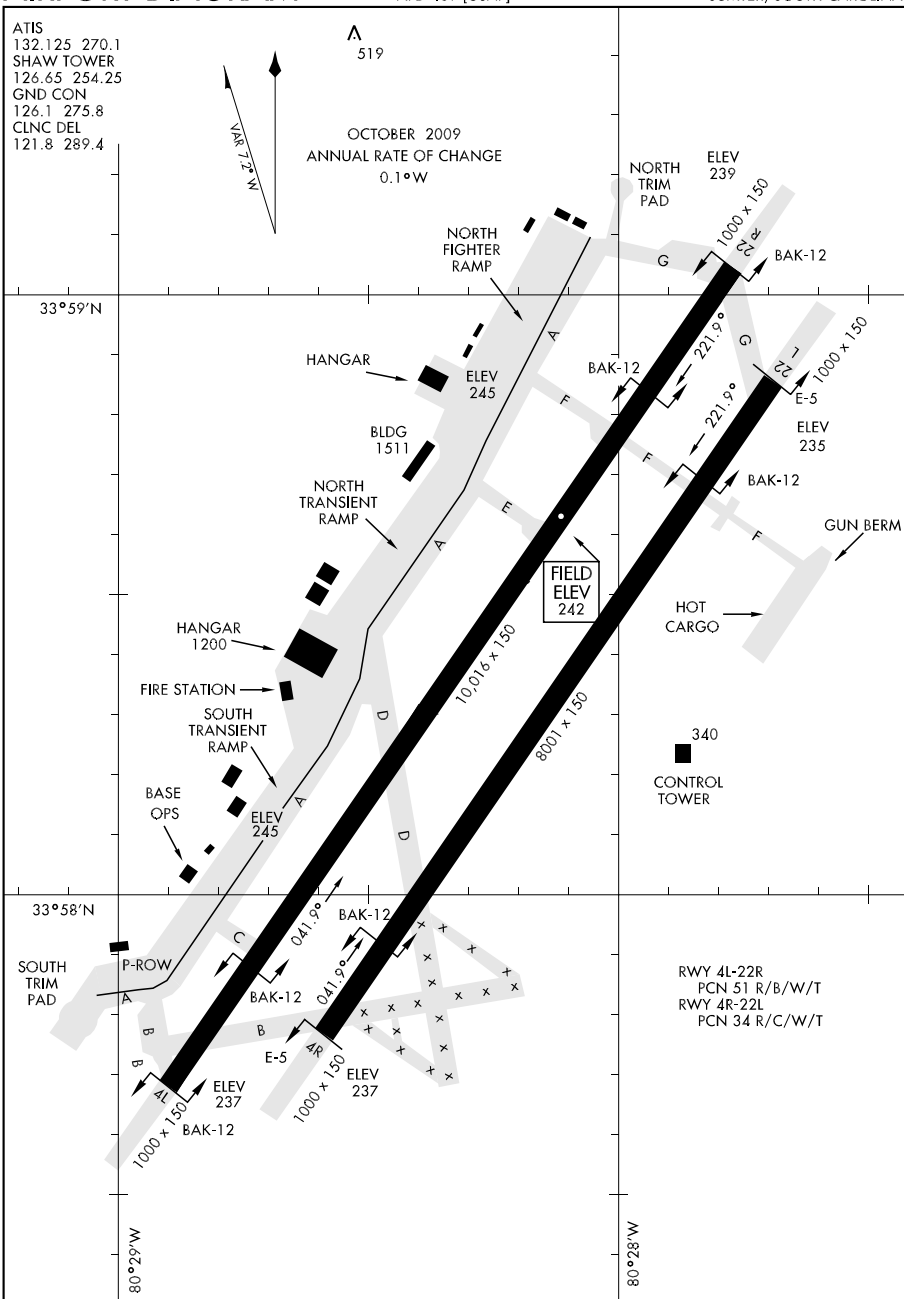
09295

AIRPORT DIAGRAM

AFD-409 [USAF]

SHAW AFB (KSSC)

SUMTER, SOUTH CAROLINA



AIRPORT DIAGRAM

SUMTER, SOUTH CAROLINA

SHAW AFB (KSSC)

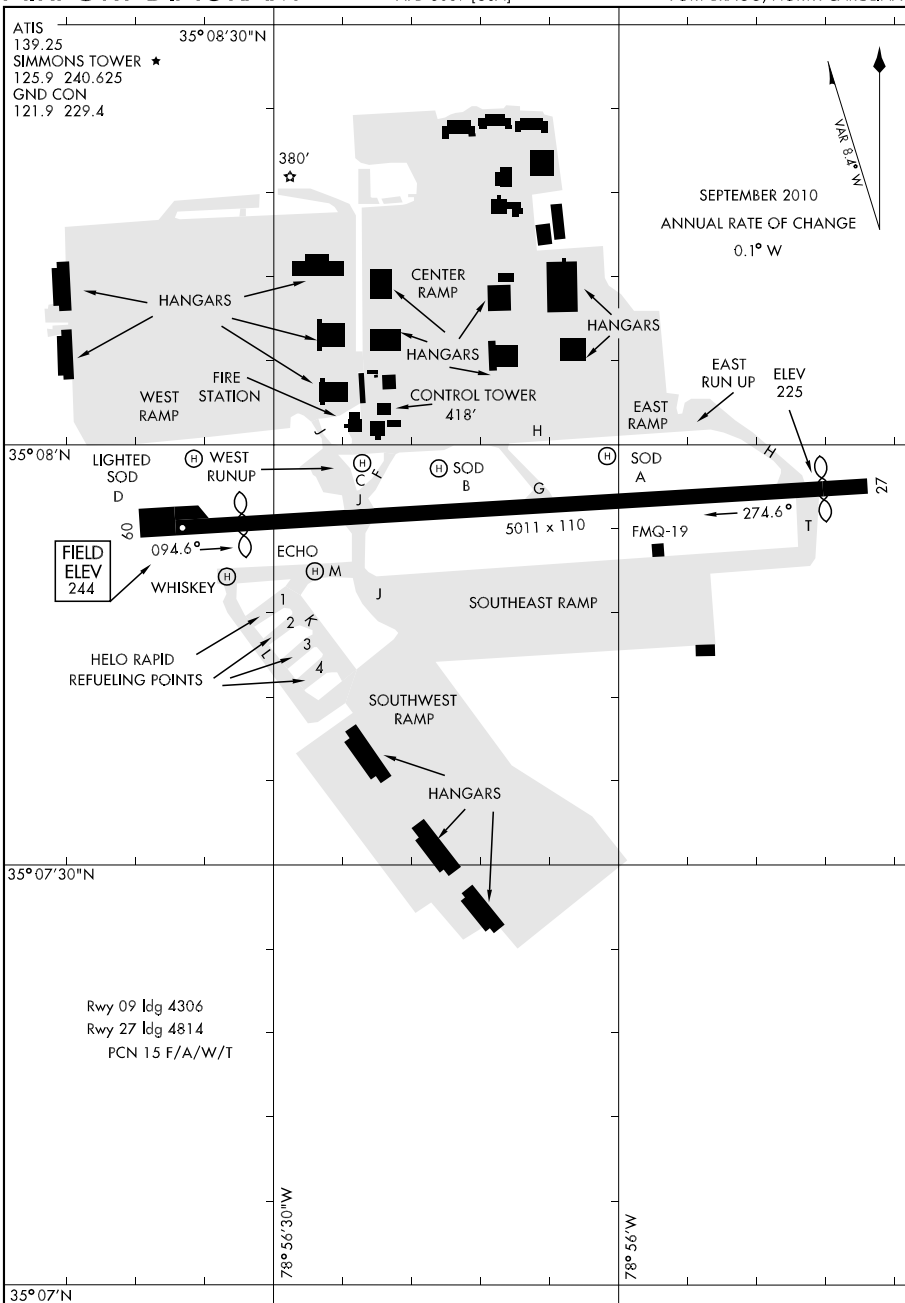
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AFD-5069 [USA]

SIMMONS AAF (KFBG)
FORT BRAGG, NORTH CAROLINA



AIRPORT DIAGRAM

FORT BRAGG, NORTH CAROLINA
SIMMONS AAF (KFBG)

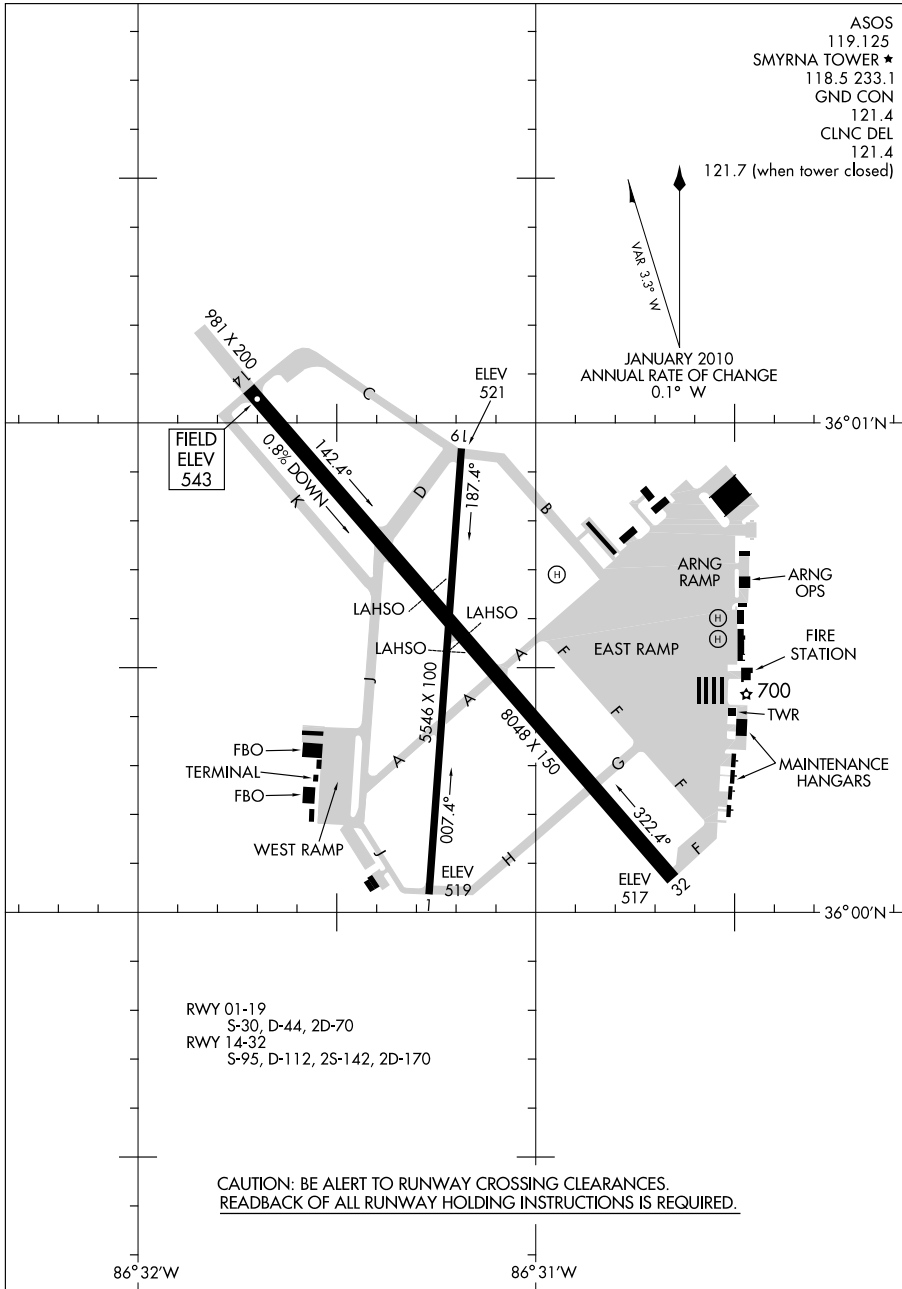
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-895 (FAA)

SMYRNA (MQY)
SMYRNA, TENNESSEE



AIRPORT DIAGRAM

10210

SMYRNA, TENNESSEE
SMYRNA (MQY)

SE. 23 SEP 2010 to 18 NOV 2010

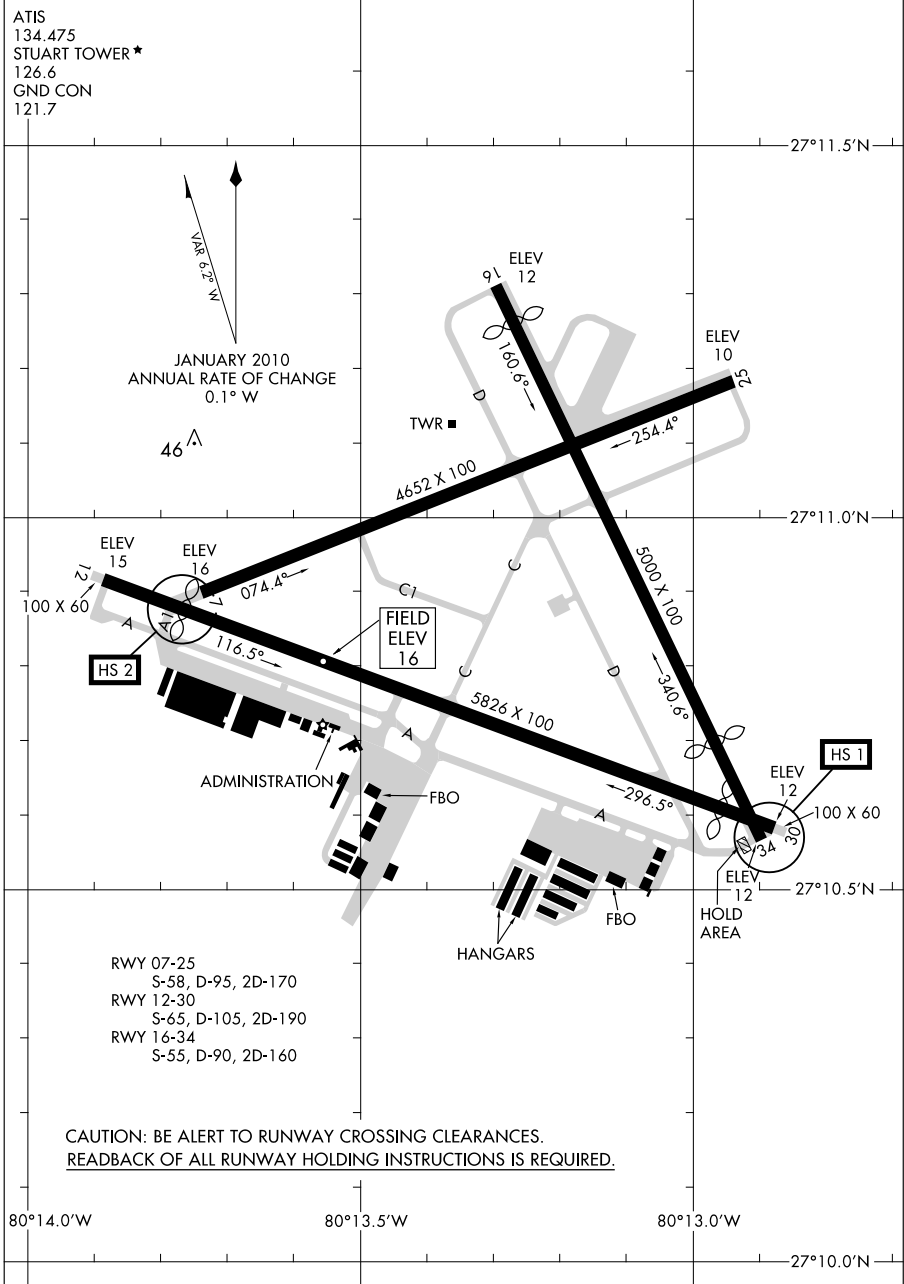
10266

AIRPORT DIAGRAM

AL-9217 (FAA)

STUART/WITHAM FIELD (SUA)

STUART, FLORIDA



AIRPORT DIAGRAM

10266

STUART, FLORIDA
STUART/WITHAM FIELD (SUA)

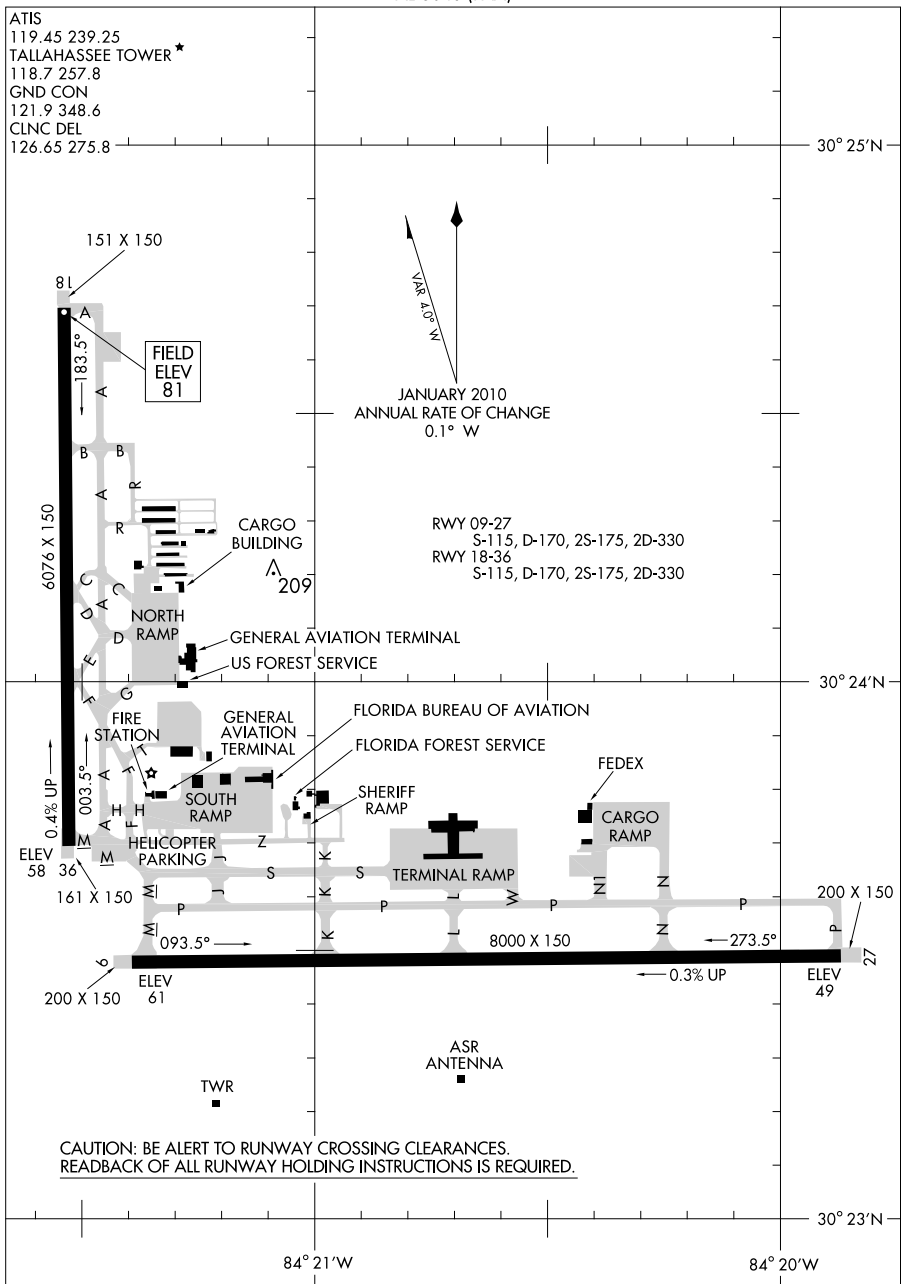
SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-5048 (FAA)

TALLAHASSEE RGNL (TLH)
TALLAHASSEE, FLORIDA



AIRPORT DIAGRAM

TALLAHASSEE, FLORIDA
TALLAHASSEE RGNL (TLH)

10266

SE. 23 SEP 2010 to 18 NOV 2010

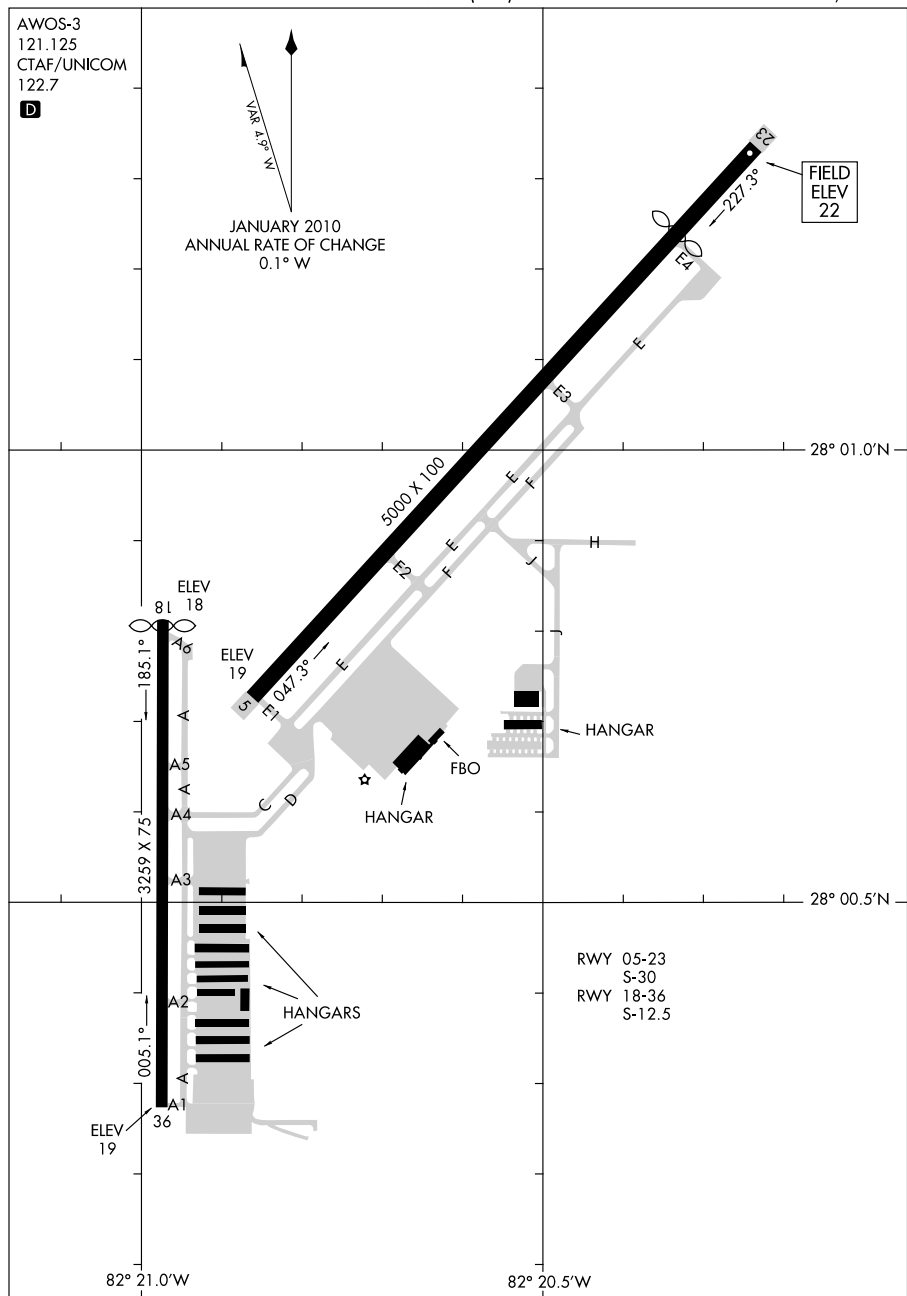
10210

AIRPORT DIAGRAM

AL-9241 (FAA)

TAMPA EXECUTIVE (VDF)

TAMPA, FLORIDA



AIRPORT DIAGRAM

10210

TAMPA, FLORIDA

TAMPA EXECUTIVE (VDF)

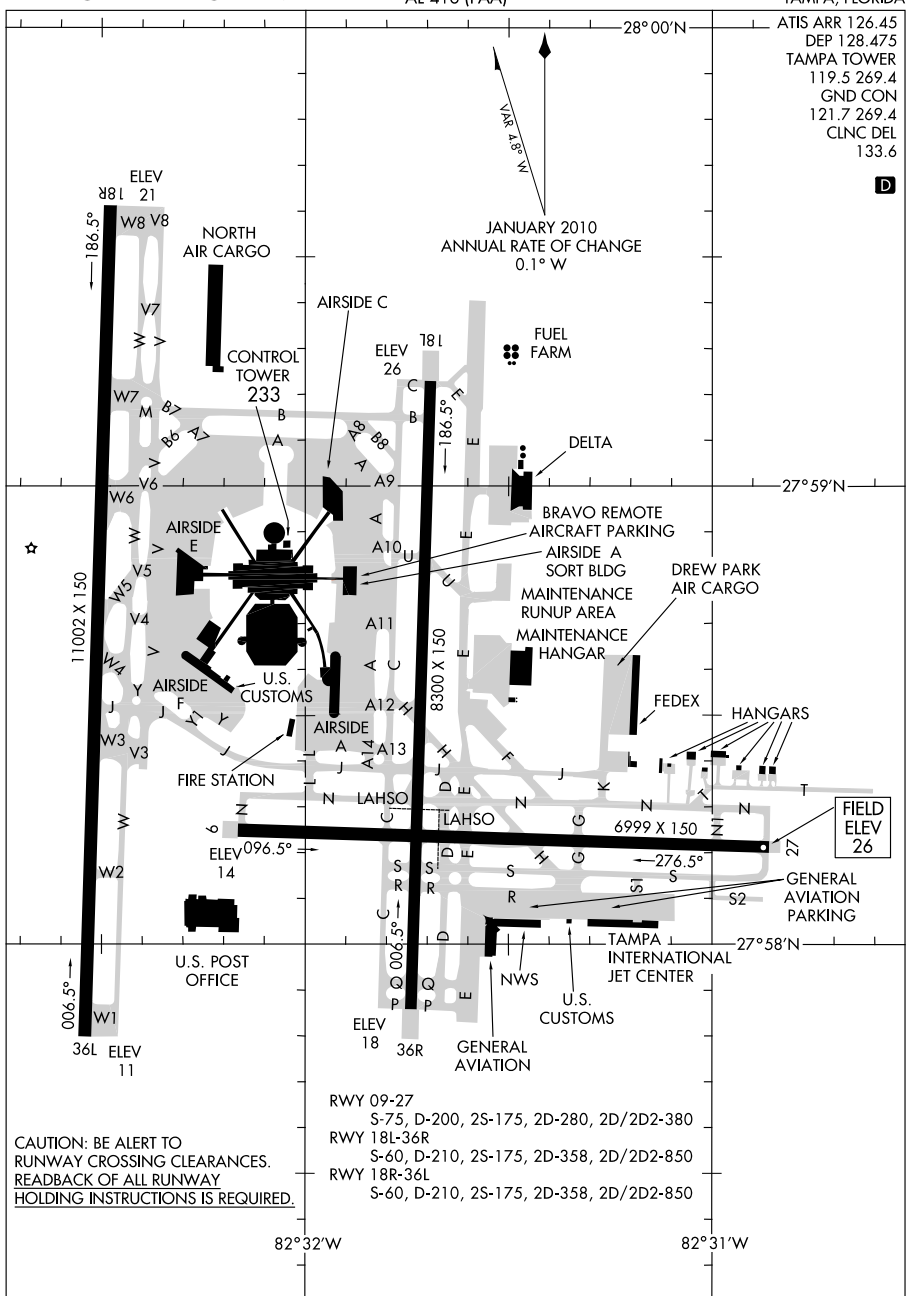
SE. 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

TAMPA INTL (TPA)

TAMPA, FLORIDA



AIRPORT DIAGRAM

10210

TAMPA, FLORIDA

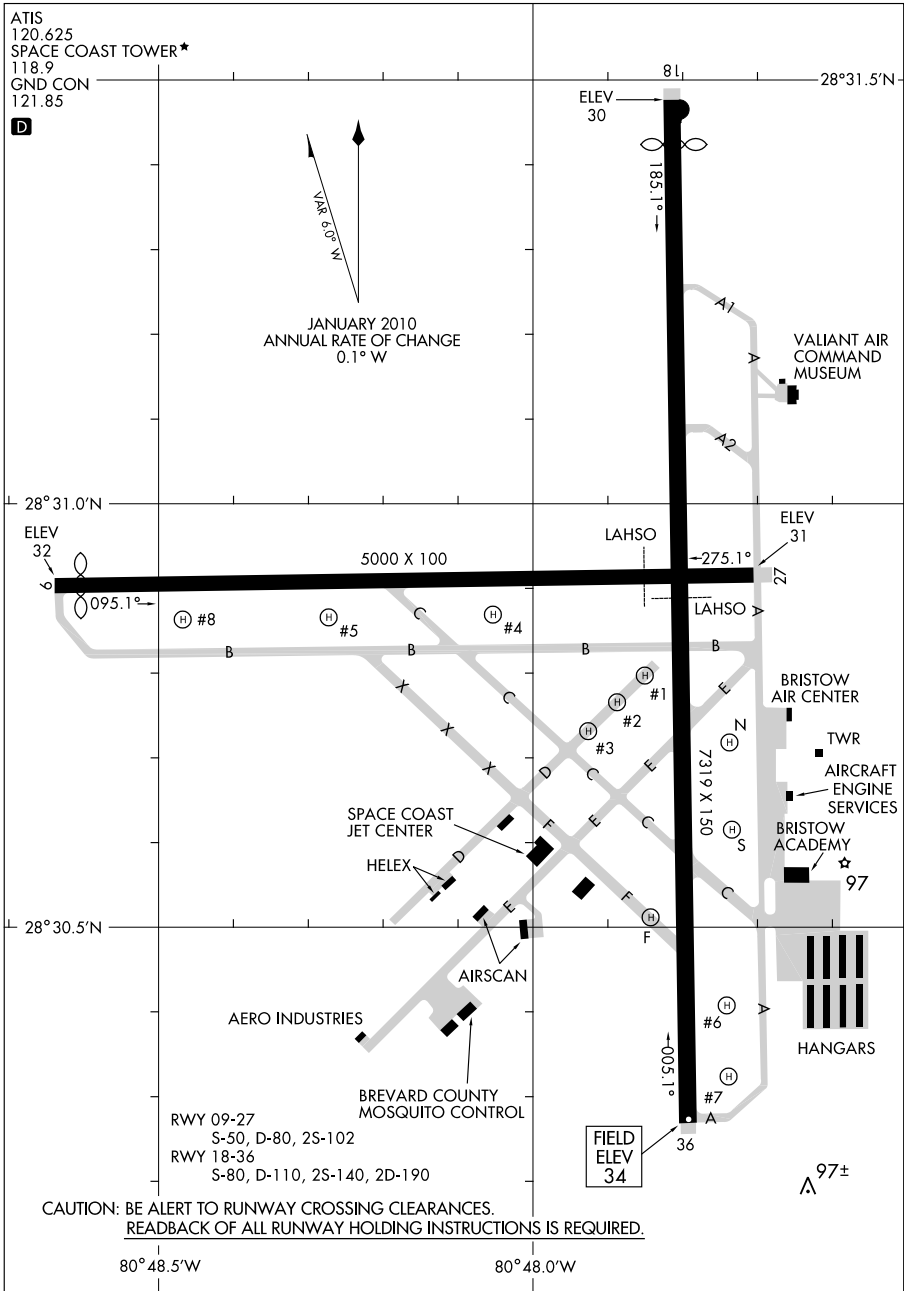
TAMPA INTL (TPA)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-5760 (FAA)

TITUSVILLE/SPACE COAST RGNL (TIX)
TITUSVILLE, FLORIDA



AIRPORT DIAGRAM

TITUSVILLE, FLORIDA
TITUSVILLE/ SPACE COAST RGNL (TIX)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10266

AIRPORT DIAGRAM

AL-487 (FAA)

TUSCALOOSA RGNL (TCL)

TUSCALOOSA, ALABAMA

ASOS
132.825
TUSCALOOSA TOWER*
126.3 256.7
GND CON
121.8 257.95

33° 14.0'N

△
258±

ELEV
167

FIELD
ELEV
170

VAR 2.1° W
JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W

TWR
FIRE STATION
TERMINAL

HS 1

ELEV
165ELEV
164

FBO

33° 13.0'N

ELEV
153

RWY 04-22

S-90, D-133, 2S-169, 2D-200

RWY 11-29

S-36, D-53, 2D-93

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

87° 37.0'W

87° 36.0'W

AIRPORT DIAGRAM

10266

TUSCALOOSA, ALABAMA

TUSCALOOSA RGNL (TCL)

SE. 23 SEP 2010 to 18 NOV 2010

10154

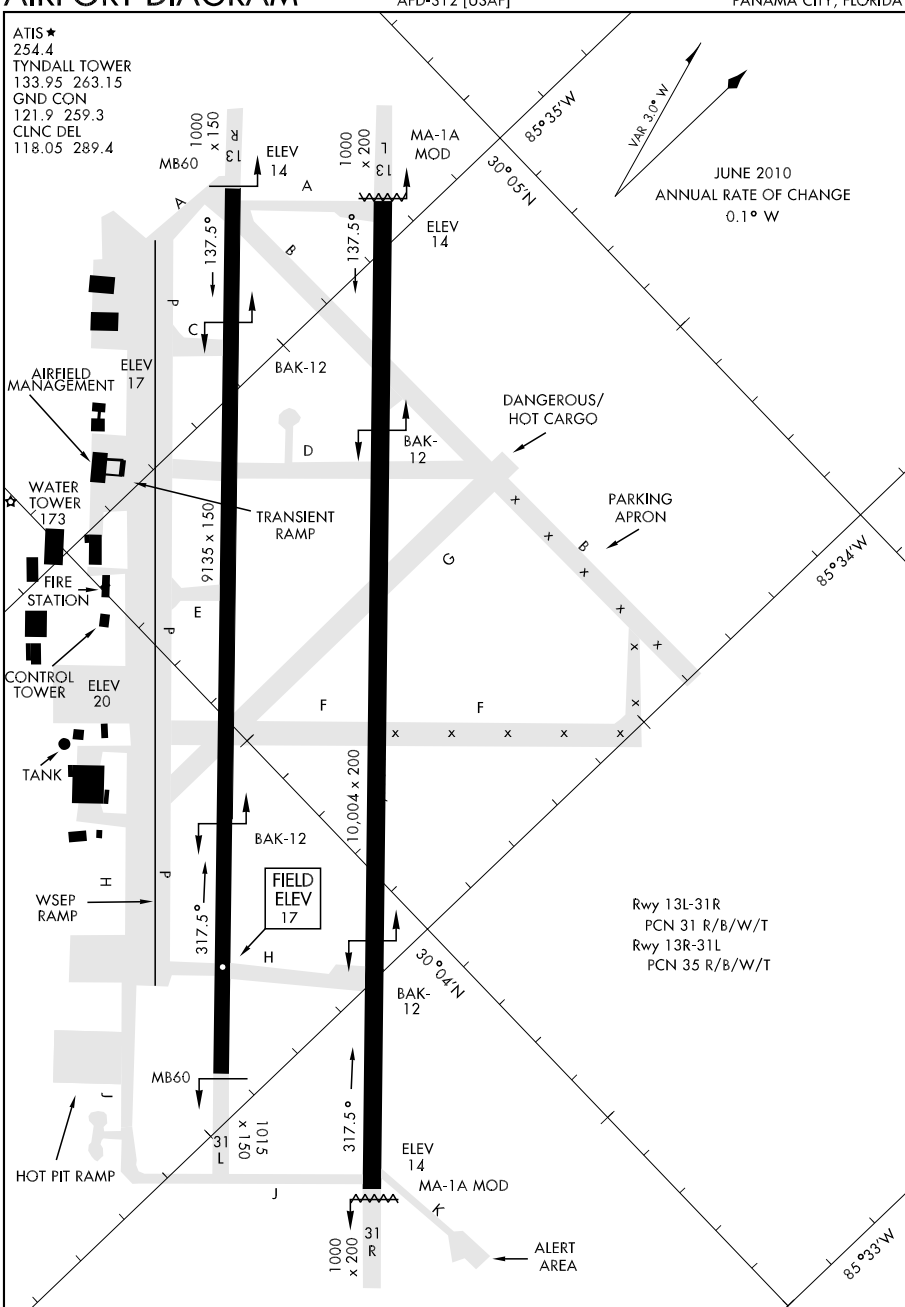
AIRPORT DIAGRAM

TYNDALL AFB (KPM)

PANAMA CITY, FLORIDA

AFD-312 [USAF]

ATIS ★
254.4
TYNDALL TOWER
133.95 263.15
GND CON
121.9 259.3
CLNC DEL
118.05 289.4



AIRPORT DIAGRAM

PANAMA CITY, FLORIDA

TYNDALL AFB (KPM)

SE. 23 SEP 2010 to 18 NOV 2010

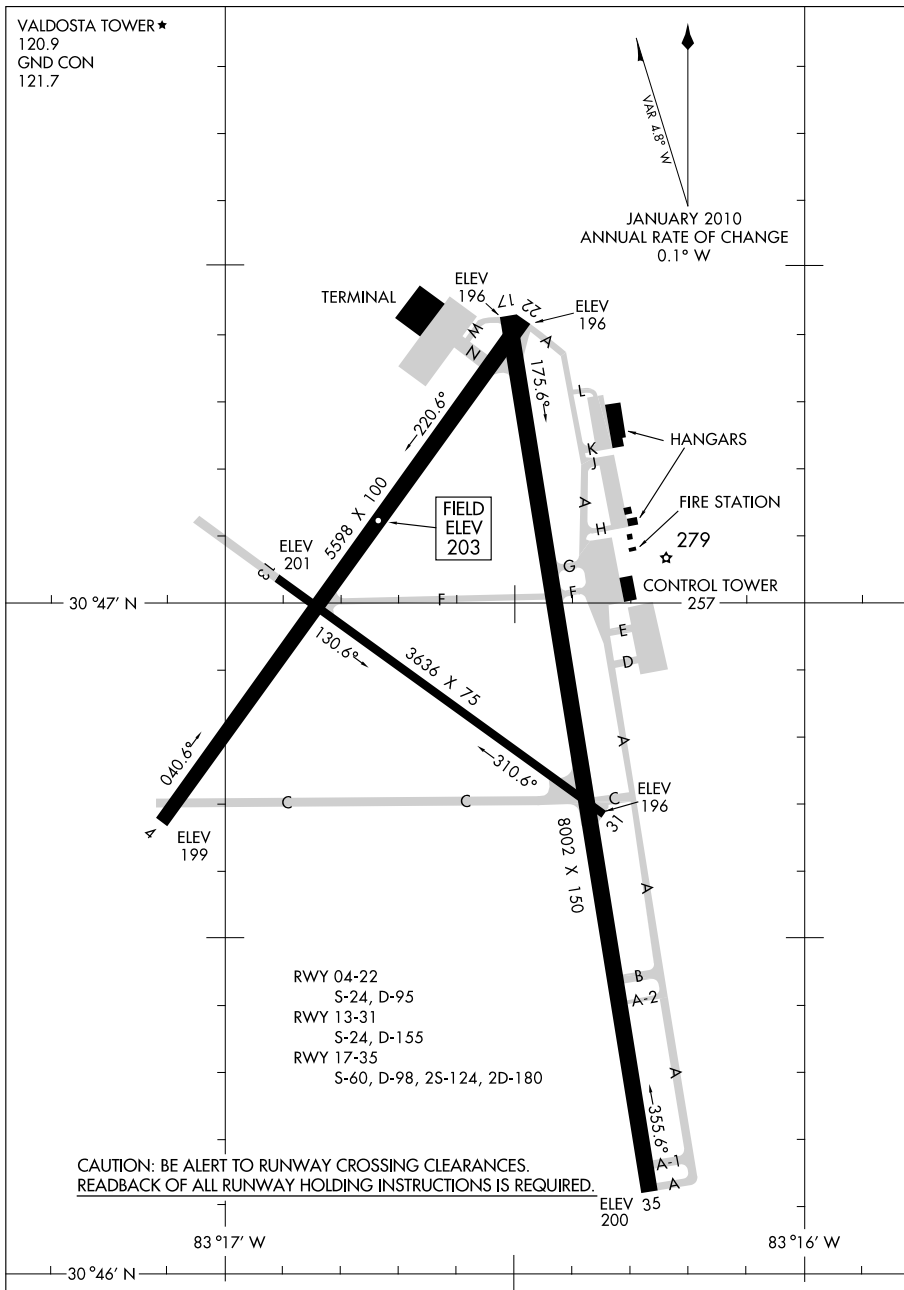
10210

AIRPORT DIAGRAM

AL-892 (FAA)

VALDOSTA RGNL (VLD)

VALDOSTA, GEORGIA



AIRPORT DIAGRAM

10210

VALDOSTA, GEORGIA
VALDOSTA RGNL (VLD)

SE. 23 SEP 2010 to 18 NOV 2010

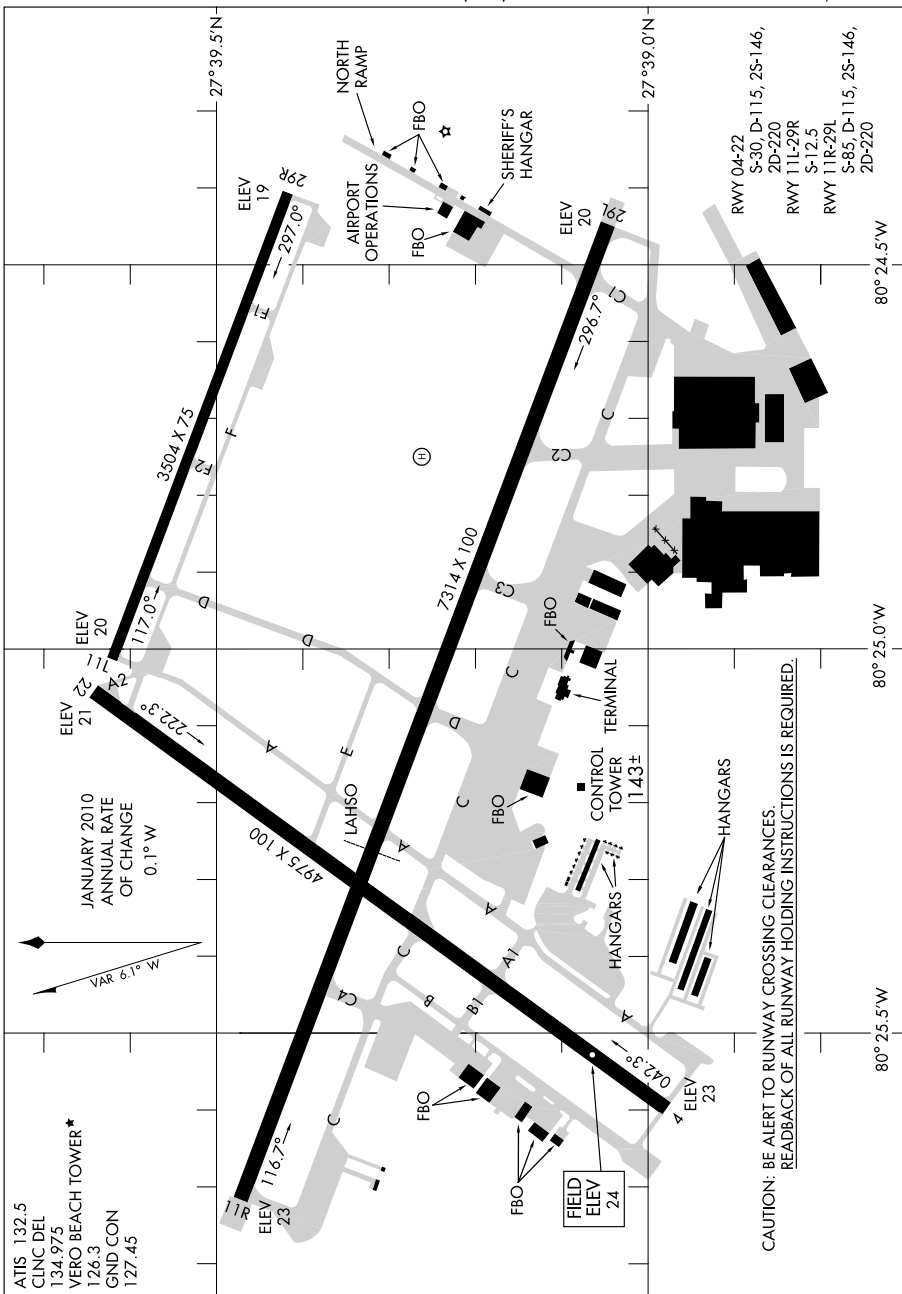
10210

AIRPORT DIAGRAM

AL-437 (FAA)

VERO BEACH MUNI (VRB)

VERO BEACH, FLORIDA



AIRPORT DIAGRAM

10210

VERO BEACH, FLORIDA
VERO BEACH MUNI (VRB)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

WEST PALM BEACH/PALM BEACH INTL (PBI)

WEST PALM BEACH, FLORIDA

D

26° 42' N -

JANUARY 2010
ANNUAL RATE OF CHANGE
0.1° W

182 

CAUTION: Pilots are cautioned not to mistake Twy L for Rwy 10L-28R or 10R-28L.

RWY 10L-28R
S-85, D-200, 2S-175, 2D-400
RWY 10R-28L
S-25
RWY 14-32
S-100, D-180, 2S-175, 2D-325,
2D/2D2-400

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

80° 06' W

80° 05' W

AIRPORT DIAGRAM

WEST PALM BEACH, FLORIDA
WEST PALM BEACH/PALM BEACH INTL (PBI)

10266

SE, 23 SEP 2010 to 18 NOV 2010

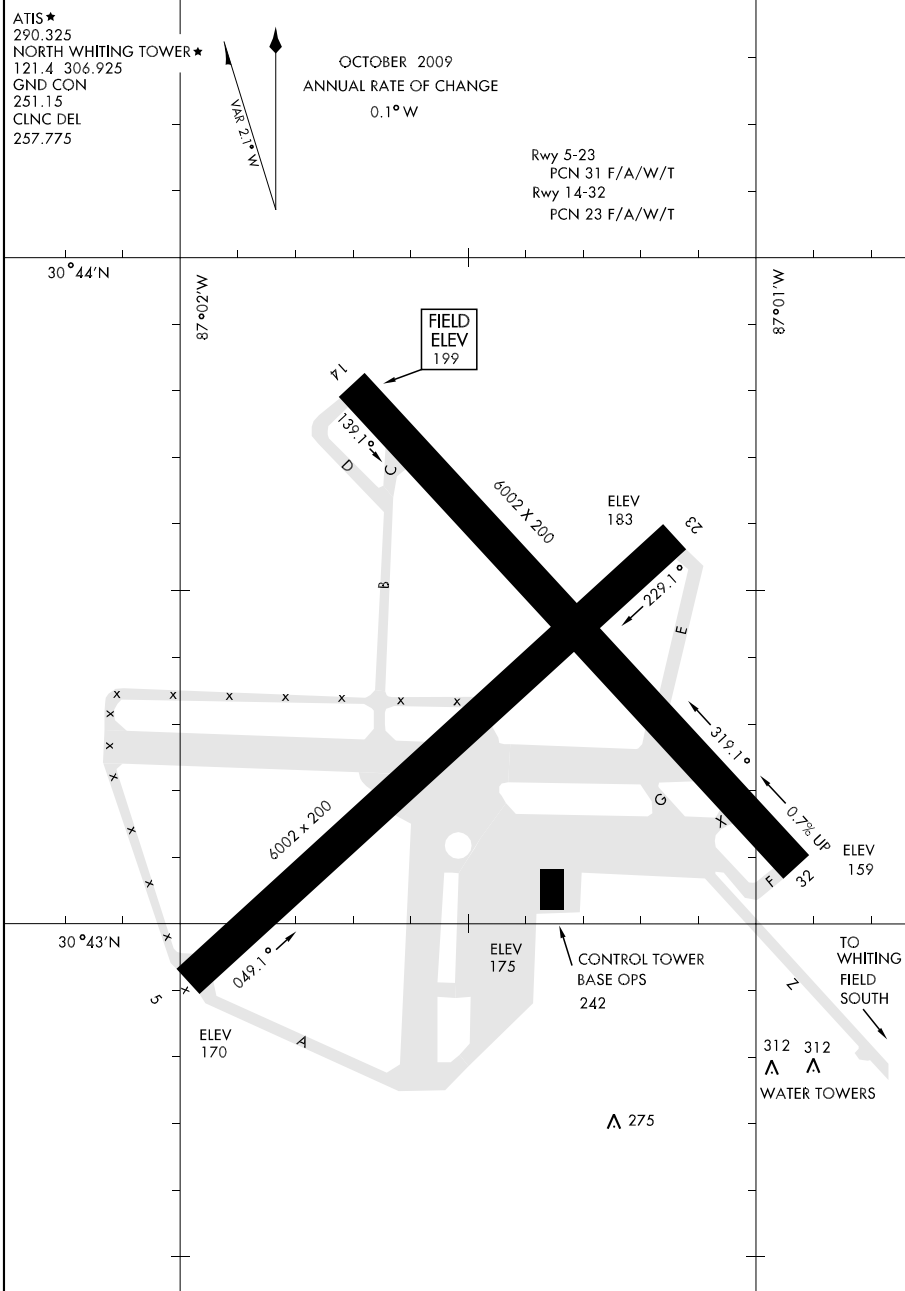
09295

AIRPORT DIAGRAM

AFD-602 [USN]

WHITING FLD NAS (NORTH) (KNSE)

MILTON, FLORIDA



AIRPORT DIAGRAM

MILTON, FLORIDA

WHITING FLD NAS (NORTH) (KNSE)

SE. 23 SEP 2010 to 18 NOV 2010

09295

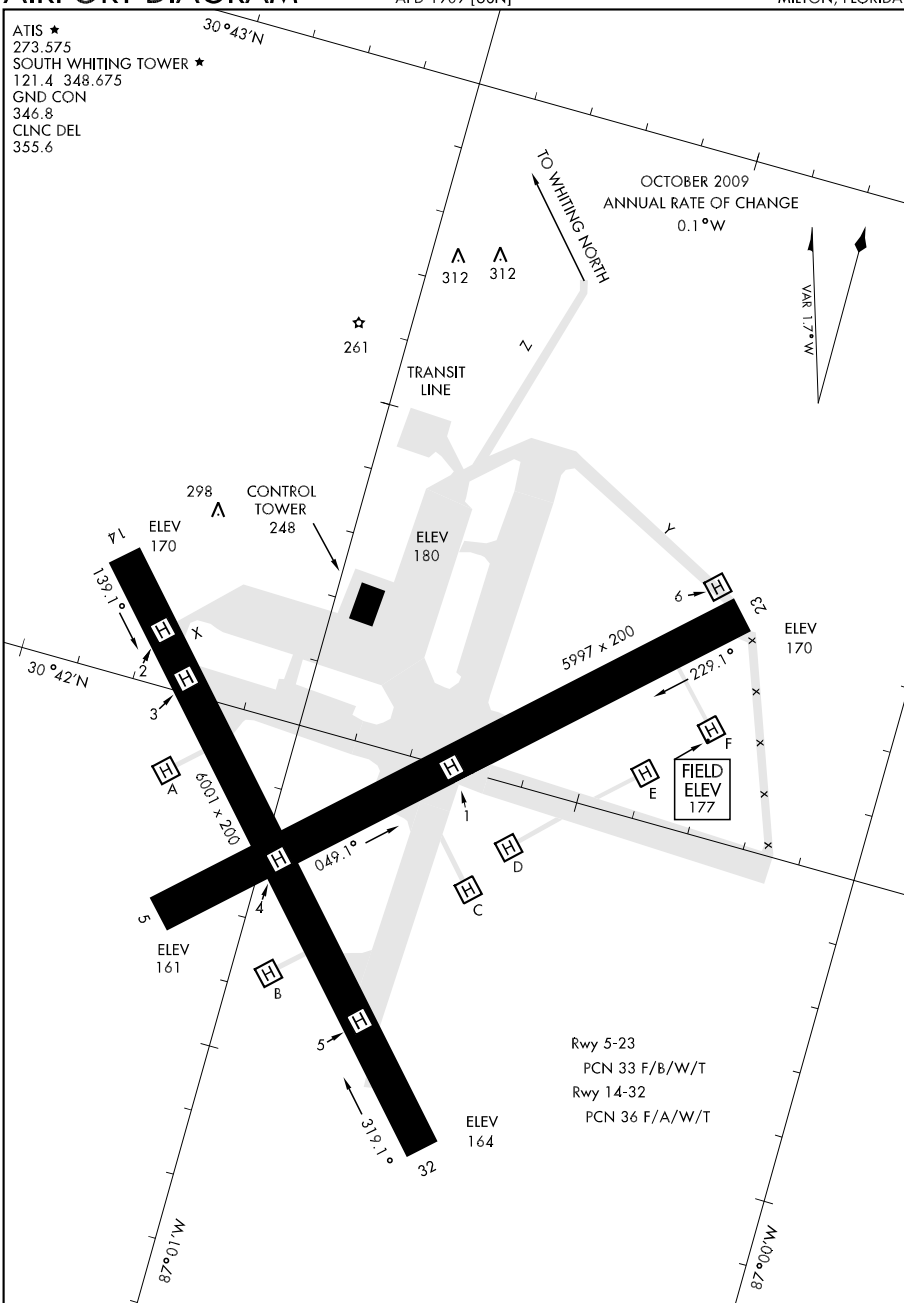
WHITING FLD NAS (SOUTH) (KNDZ)

AIRPORT DIAGRAM

AFD-1909 [USN]

MILTON, FLORIDA

ATIS ★
 273.575
 SOUTH WHITING TOWER ★
 121.4 348.675
 GND CON
 346.8
 CLNC DEL
 355.6



AIRPORT DIAGRAM

MILTON, FLORIDA

WHITING FLD NAS (SOUTH) (KNDZ)

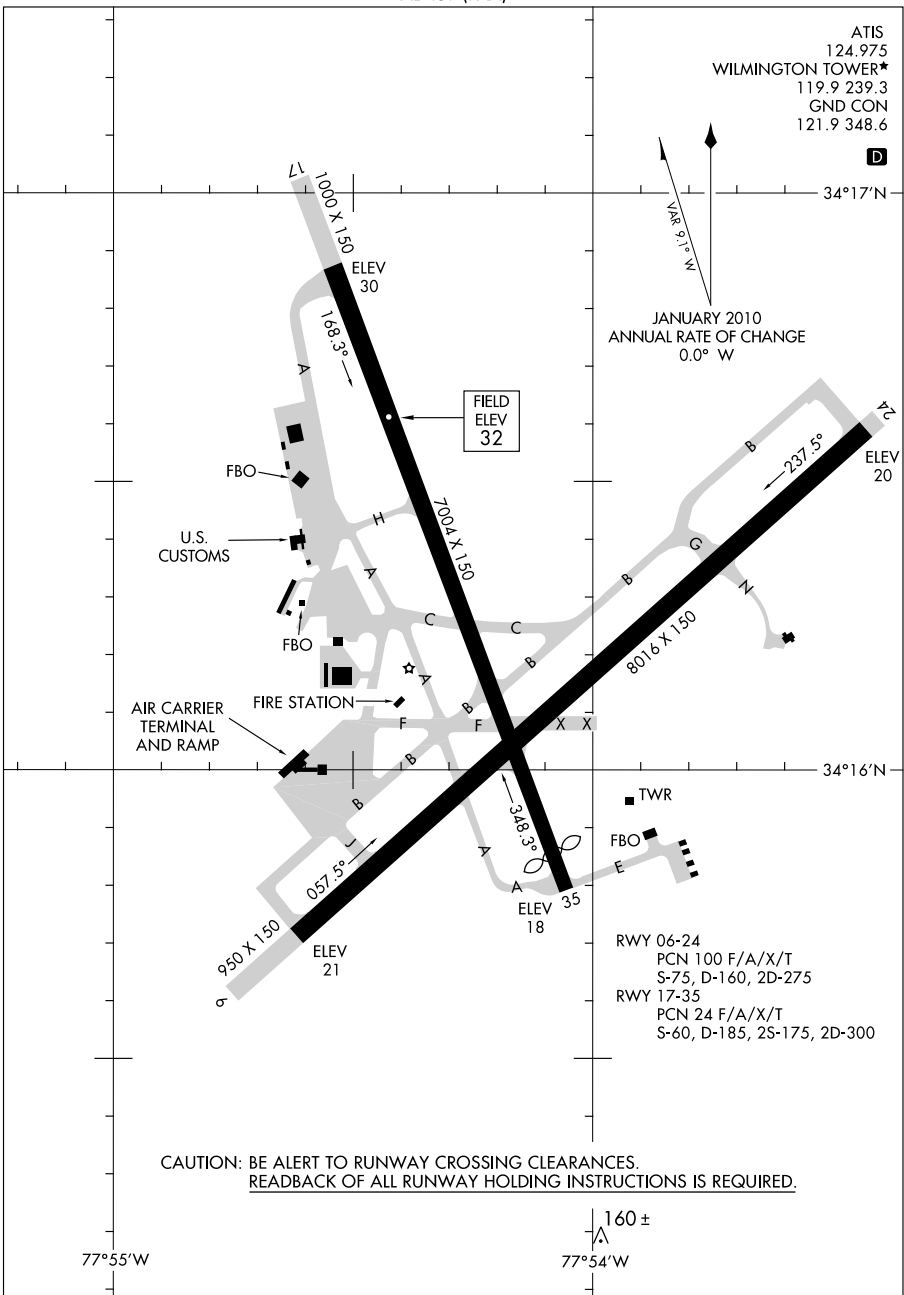
SE, 23 SEP 2010 to 18 NOV 2010

10210

AIRPORT DIAGRAM

AL-459 (FAA)

WILMINGTON INTL (ILM)
WILMINGTON, NORTH CAROLINA



AIRPORT DIAGRAM

10210

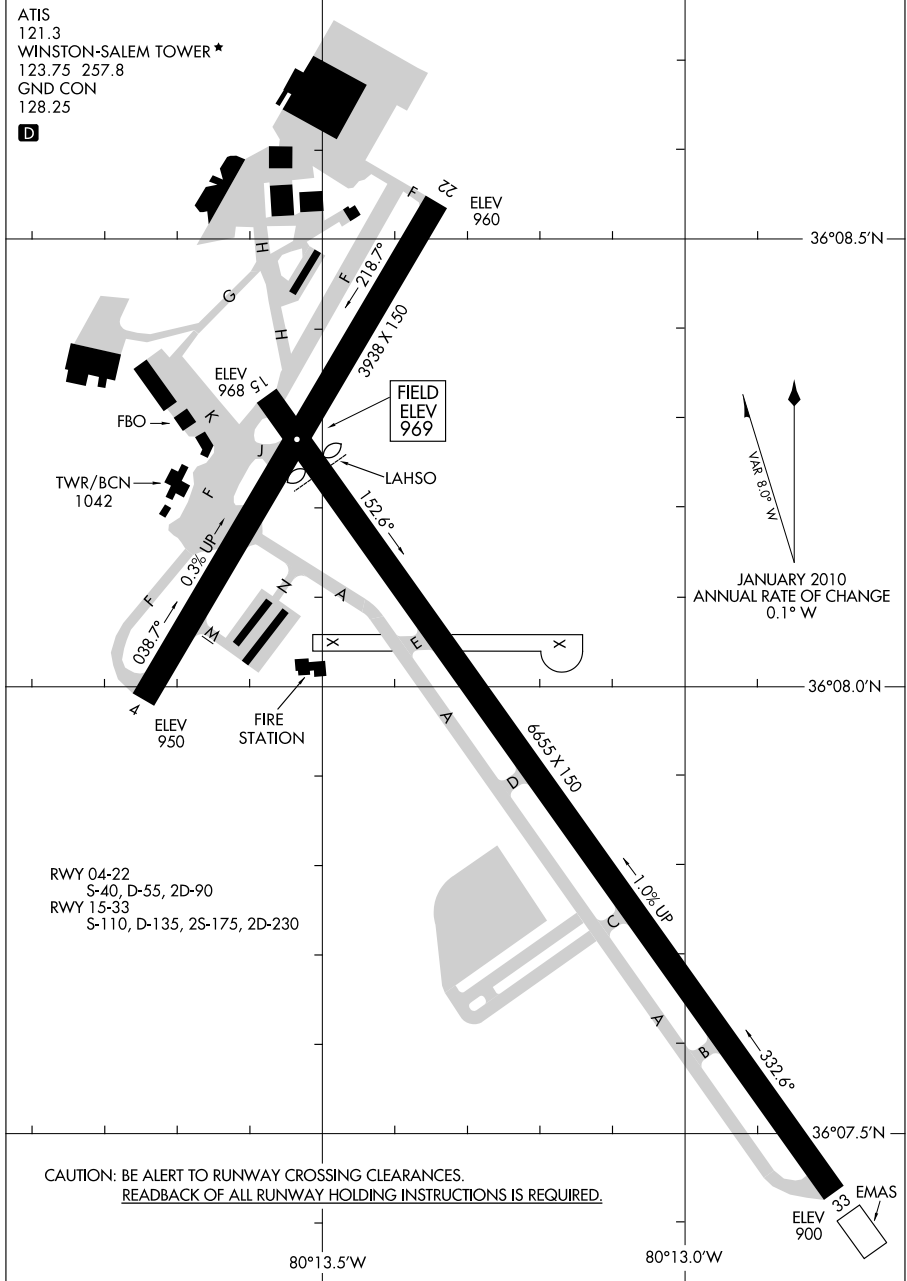
WILMINGTON, NORTH CAROLINA
WILMINGTON INTL (ILM)

SE. 23 SEP 2010 to 18 NOV 2010

AIRPORT DIAGRAM

WINSTON-SALEM /SMITH REYNOLDS (INT)
WINSTON-SALEM, NORTH CAROLINA

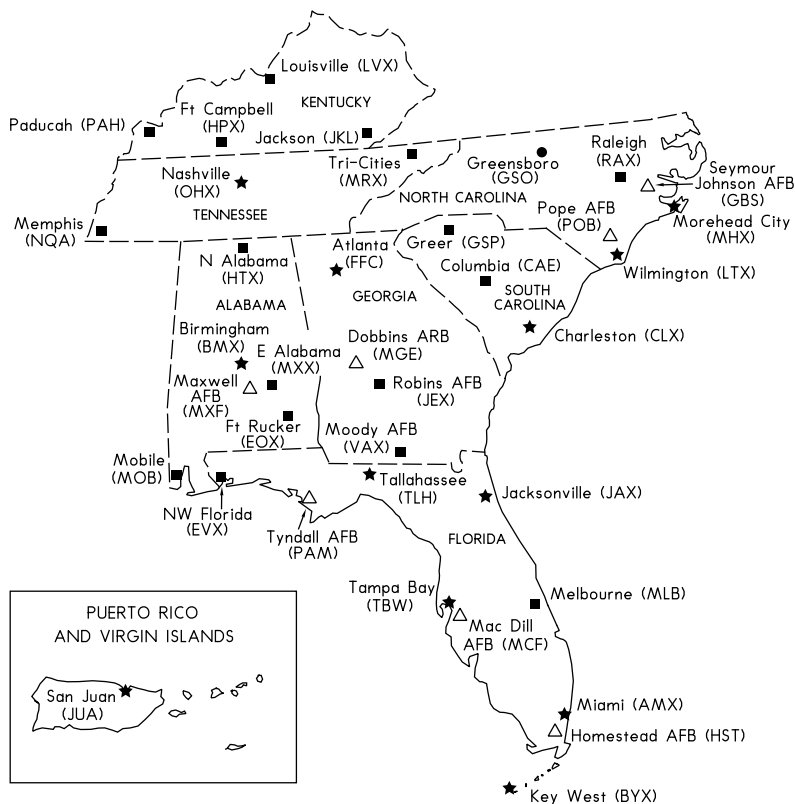
AL-463 (FAA)



AIRPORT DIAGRAM

**INTENTIONALLY
LEFT
BLANK**

NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATIONS (UAOS) AND WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

See Aeronautical Information Manual (AIM) for available services

